

Use and Management of the Soils

This soil survey is an inventory and evaluation of the soils in the survey area. It can be used to adjust land uses to the limitations and potentials of natural resources and the environment. Also, it can help to prevent soil-related failures in land uses.

In preparing a soil survey, soil scientists, conservationists, engineers, and others collect extensive field data about the nature and behavioral characteristics of the soils. They collect data on erosion, droughtiness, flooding, and other factors that affect various soil uses and management. Field experience and collected data on soil properties and performance are used as a basis in predicting soil behavior.

Information in this section can be used to plan the use and management of soils for crops and pasture; as rangeland and forestland; as sites for buildings, sanitary facilities, highways and other transportation systems, and parks and other recreational facilities; for agricultural waste management; and as wildlife habitat. It can be used to identify the potentials and limitations of each soil for specific land uses and to help prevent construction failures caused by unfavorable soil properties.

Planners and others using soil survey information can evaluate the effect of specific land uses on productivity and on the environment in all or part of the survey area. The survey can help planners to maintain or create a land use pattern in harmony with the natural soil.

Contractors can use this survey to locate sources of sand and gravel, roadfill, and topsoil. They can use it to identify areas where bedrock, wetness, or very firm soil layers can cause difficulty in excavation.

Health officials, highway officials, engineers, and others may also find this survey useful. The survey can help them plan the safe disposal of wastes and locate sites for pavements, sidewalks, campgrounds, playgrounds, lawns, and trees and shrubs.

Interpretive Ratings

The interpretive tables in this survey rate the soils in the survey area for various uses. Many of the tables identify the limitations that affect specified uses and indicate the severity of those limitations. The ratings in these tables are both verbal and numerical.

Rating Class Terms

Rating classes are expressed in the tables in terms that indicate the extent to which the soils are limited by all of the soil features that affect a specified use or in terms that indicate the suitability of the soils for the use. Thus, the tables may show limitation classes or suitability classes. Terms for the limitation classes are *not limited*, *slightly limited*, *somewhat limited*, and *very limited*. The suitability ratings are expressed as *well suited*, *moderately well suited*, *poorly suited*, and *unsuited* or as *good*, *fair*, and *poor*.

Numerical Ratings

Numerical ratings in the tables indicate the relative severity of individual limitations. The ratings are shown as decimal fractions ranging from 0.00 to 1.00. They indicate gradations between the point at which a soil feature has the greatest negative impact

on the use and the point at which the soil feature is not a limitation. The limitations appear in order from the most limiting to the least limiting. Thus, if more than one limitation is identified, the most severe limitation is listed first and the least severe one is listed last.

Pasture

General management needed for pasture is suggested in this section. The estimated yields of pasture plants are listed, the system of land capability classification used by the Natural Resources Conservation Service is explained, and prime farmland is described.

Planners of management systems for individual fields or farms should consider the detailed information given in the description of each soil under the heading “Detailed Soil Map Units.” Specific information can be obtained from the local office of the Natural Resources Conservation Service or the Cooperative Extension Service.

Yields per Acre

The average yields per acre of pasture forage that can be expected under a high level of management are shown in Table 4. Yields may be expressed as Animal Unit Months (AUM). Only soil map units commonly used for pasture are listed. In any given year, yields may be higher or lower than those indicated in the table because of variations in rainfall and other climatic factors. The land capability classification of map units in the survey area also is shown in the table.

The yields are based mainly on the experience and records of farmers, conservationists, and extension agents. Available yield data from nearby counties and results of field trials and demonstrations also are considered.

The management needed to obtain the indicated yields of the various crops depends on the kind of soil and the crop. Management can include drainage, erosion control, and protection from flooding; suitable pasture plant varieties; favorable soil reaction and optimum levels of nitrogen, phosphorus, potassium, and trace elements.

For yields of irrigated pasture, it is assumed that the irrigation system is adapted to the soils and to the pasture plants grown, that good-quality irrigation water is uniformly applied as needed.

The estimated yields reflect the productive capacity of each soil. Yields are likely to increase as new production technology is developed. The productivity of a given soil compared with that of other soils, however, is not likely to change.

Some crops are grown in the survey area, but estimated yields are not listed because the acreage of such crops is small. The local office of the Natural Resources Conservation Service or of the Cooperative Extension Service can provide information about the management and productivity of the soils for those crops.

Land Capability Classification

Land capability classification shows, in a general way, the suitability of soils for most kinds of field crops. Crops that require special management are excluded. The soils are grouped according to their limitations for field crops, the risk of damage if they are used for crops, and the way they respond to management (USDA, 1961). The criteria used in grouping the soils do not include major and generally expensive landforming that would change slope, depth, or other characteristics of the soils, nor do they include possible but unlikely major reclamation projects. Capability classification is not a substitute for interpretations designed to show suitability and limitations of groups of soils for rangeland, for forestland, or for engineering purposes.

In the capability system, soils are generally grouped at three levels—capability class, subclass, and unit. Only class and subclass are used in this survey.

Capability classes, the broadest groups, are designated by the numbers 1 through 8. The numbers indicate progressively greater limitations and narrower choices for practical use. The classes are defined as follows:

Class 1 soils have slight limitations that restrict their use.

Class 2 soils have moderate limitations that restrict the choice of plants or that require moderate conservation practices.

Class 3 soils have severe limitations that restrict the choice of plants or that require special conservation practices, or both.

Class 4 soils have very severe limitations that restrict the choice of plants or that require very careful management, or both.

Class 5 soils are subject to little or no erosion but have other limitations, impractical to remove, that restrict their use mainly to pasture, rangeland, forestland, or wildlife habitat.

Class 6 soils have severe limitations that make them generally unsuitable for cultivation and that restrict their use mainly to pasture, rangeland, forestland, or wildlife habitat.

Class 7 soils have very severe limitations that make them unsuitable for cultivation and that restrict their use mainly to grazing, forestland, or wildlife habitat.

Class 8 soils and miscellaneous areas have limitations that preclude commercial plant production and that restrict their use to recreational purposes, wildlife habitat, watershed, or esthetic purposes.

Capability subclasses are soil groups within one class. They are designated by adding a small letter, *e*, *w*, *s*, or *c*, to the class numeral, for example, 2*e*. The letter *e* shows that the main hazard is the risk of erosion unless close-growing plant cover is maintained; *w* shows that water in or on the soil interferes with plant growth or cultivation (in some soils the wetness can be partly corrected by artificial drainage); *s* shows that the soil is limited mainly because it is shallow, droughty, or stony; and *c*, used in only some parts of the United States, shows that the chief limitation is climate that is very cold or very dry.

In class 1 there are no subclasses because the soils of this class have few limitations. Class 5 contains only the subclasses indicated by *w*, *s*, or *c* because the soils in class 5 are subject to little or no erosion. They have other limitations that restrict their use to pasture, rangeland, forestland, wildlife habitat, or recreation.

The capability classification of map units in this survey area is given in the section *Detailed Soil Map Units* and in Table 4, Land capability and yields per acre of pasture.

Prime Farmland

Prime farmland is one of several kinds of important farmland defined by the U.S. Department of Agriculture. It is of major importance in meeting the Nation's short- and long-range needs for food and fiber. Because the supply of high-quality farmland is limited, the U.S. Department of Agriculture recognizes that responsible levels of government, as well as individuals, should encourage and facilitate the wise use of our Nation's prime farmland.

Prime farmland, as defined by the U.S. Department of Agriculture, is land that has the best combination of physical and chemical characteristics for producing food, feed, forage, fiber, and oilseed crops and is available for these uses. It could be cultivated land, pastureland, forestland, or other land, but it is not urban or built-up land or water areas. The soil qualities, growing season, and moisture supply are those needed for the soil to economically produce sustained high yields of crops when proper management, including water management, and acceptable farming methods are applied. In general, prime farmland has an adequate and dependable supply of moisture from precipitation or irrigation, a favorable temperature and growing season, acceptable acidity or alkalinity, an acceptable salt and sodium content, and few or no rocks. It is permeable to water and air. It is not excessively

erodible or saturated with water for long periods, and it either is not frequently flooded during the growing season or is protected from flooding. The slopes range mainly from 0 to 6 percent. More detailed information about the criteria for prime farmland is available at the local office of the Natural Resources Conservation Service.

About 4,000 acres, or 0.3 percent of the survey area, would meet the requirements for prime farmland if an adequate supply of good quality irrigation water was available and the soils were irrigated. The only irrigated soils at the present time are those located along the Dolores River and its tributaries. They are used mostly for the production of hay and pasture. Soils that are not along the river valley are mostly public land and do not have a source of irrigation water.

The map units in the survey area that are considered prime farmland are listed at the end of this section. This list does not constitute a recommendation for a particular land use. On some soils included in the list, measures that overcome a hazard or limitation, such as flooding, wetness, and droughtiness, are needed. Onsite evaluation is needed to determine whether or not the hazard or limitation has been overcome by corrective measures. The extent of each listed map unit is shown in Table 5. The location is shown on the detailed soil maps. The soil qualities that affect use and management are described under the heading *Detailed Soil Map Units*.

The map units that meet the requirements for prime farmland if irrigated are:

- 959—Granath loam, 3 to 6 percent slopes
- 2—Hesperus loam, 0 to 3 percent slopes
- 10—Lillings silty clay loam, 0 to 5 percent slopes
- 12—Shawa loam, 0 to 5 percent slopes
- 15—Umbarg loam, 0 to 5 percent slopes
- 955—Umbarg-Winner-Tesajo complex, 0 to 2 percent slopes
- 512—Wetherill loam, 3 to 6 percent slopes

Ecological Sites and Characteristic Native Vegetation

In areas that have similar climate and topography, differences in the kind and amount of rangeland and forest understory vegetation, and the tree species are closely related to the kind of soil. Effective management is based upon the relationship between the soils and vegetation and water.

Table 6 shows, for each soil, the ecological site; the total annual production of vegetation in favorable, normal, and unfavorable years; the characteristic native vegetation; the average percentage of each species for rangeland and for forest understory vegetation. An explanation of the column headings in Table 6 follows. Common trees, their site index, volume of wood fiber, and trees to manage are given in the section *Forest Productivity and Management*.

An *ecological site* is the product of all the environmental factors responsible for its development. It has characteristic soils that have developed over time throughout the soil development process; a characteristic hydrology, particularly infiltration and runoff, that has developed over time; and a characteristic plant community (kind and amount of vegetation). The hydrology of the site is influenced by development of the soil and plant community. The vegetation, soils, and hydrology are all interrelated. Each is influenced by the others and influences the development of the others. The plant community on an ecological site is typified by an association of species that differs from that of other ecological sites in the kind and/or proportion of species or in total production. Descriptions of ecological sites are provided in the Field Office Technical Guide, which is available in local offices of the Natural Resources Conservation Service.

Total production is the amount of dry-weight vegetation that can be expected to grow annually in a well managed area that is supporting the potential natural plant

community. It includes all vegetation, whether or not it is palatable to grazing animals. It includes the current year's growth of leaves, twigs, and fruits of woody plants. It does not include the increase in stem diameter of trees and shrubs. It is expressed in pounds per acre of air-dry vegetation for favorable, normal, and unfavorable years. In a favorable year, the amount and distribution of precipitation and the temperatures make growing conditions substantially better than average. In a normal year, growing conditions are about average. In an unfavorable year, growing conditions are well below average, generally because of low available soil moisture. Yields are adjusted to a common percentage of air-dry moisture content.

Characteristic native vegetation consists of the grasses, forbs, and shrubs that make up most of the potential natural plant community on each soil is listed by common name. Under *composition*, the expected percentage of the total annual production of rangeland and forest understory vegetation is given for each species making up the characteristic native vegetation. The amount that can be used as forage depends upon the kinds of grazing animals and on the grazing season.

Range management requires a knowledge of the kinds of soil and of the potential natural plant community. It also requires an evaluation of the present range similarity index and rangeland trend. Range similarity index is determined by comparing the present plant community with the potential natural plant community on a particular rangeland ecological site. The more closely the existing community resembles the potential community, the higher the range similarity index. Rangeland trend is defined as the direction of change in an existing plant community relative to the potential natural plant community. Further information about the range similarity index and rangeland trend is available in chapter 4 of the "National Range and Pasture Handbook," which is available in local offices of the Natural Resources Conservation Service.

The objective in range management is to control grazing so that the plants growing on a site are about the same in kind and amount as the potential natural plant community for that site. Such management generally results in the optimum production of vegetation, control of undesirable brush species, conservation of water, and control of erosion. Sometimes, however, an area with a range similarity index somewhat below the potential meets grazing needs, provides wildlife habitat, and protects soil and water resources.

Forest Productivity and Management

The tables in this section can help forest owners or managers plan the use of soils for wood crops. They show the potential productivity of the soils for wood crops and rate the soils according to the limitations that affect various aspects of forest management.

Forest Productivity

In Table 7, the *potential productivity* of merchantable or *common trees* on a soil is expressed as a site index and as a volume number. The *site index* is the average height, in feet, that dominant and codominant trees of a given species attain in a specified number of years. The site index applies to fully stocked, even-aged, unmanaged stands. Commonly grown trees are those that forest managers generally favor in intermediate or improvement cuttings. They are selected on the basis of growth rate, quality, value, and marketability.

Site index is expressed in a different way for species of pinyon and juniper. For these tree species site index is the basal area attained when trees in a stand average 5 inches in diameter (Howell, 1940).

In this survey area, site index was determined using a 50-year curve for quaking aspen (Baker, 1925) and white fir (Schumacher, 1926). A 100-year curve was used

for Engelmann's spruce and subalpine fir (Alexander, 1967), and for ponderosa pine and Rocky Mountain Douglas-fir (Meyer, 1961). More detailed information regarding site index is available in the "National Forestry Manual," which is available in local offices of the Natural Resources Conservation Service or on the Internet.

The *volume of wood fiber*, a number, is the yield likely to be produced by the each tree species listed. This number, expressed as cubic feet per acre per year and calculated at the age of culmination of the mean annual increment (CMAI), indicates the amount of fiber produced in a fully stocked, even-aged, unmanaged stand.

Trees to manage are those that are preferred for planting, seeding, or natural regeneration and those that remain in the stand after thinning or partial harvest.

Forest Management

In Tables 8 through 12, interpretive ratings are given for various aspects of forest management. The ratings are both verbal and numerical.

Some rating class terms indicate the degree to which the soils are suited to a specified forest management practice. *Well suited* indicates that the soil has features that are favorable for the specified practice and has no limitations. Good performance can be expected, and little or no maintenance is needed. *Moderately well suited* indicates that the soil has features that are moderately favorable for the specified practice. One or more soil properties are less than desirable, and fair performance can be expected. Some maintenance is needed. *Poorly suited* indicates that the soil has one or more properties that are unfavorable for the specified practice. Overcoming the unfavorable properties requires special design, extra maintenance, and costly alteration. *Unsuited* indicates that the expected performance of the soil is unacceptable for the specified practice or that extreme measures are needed to overcome the undesirable soil properties.

Numerical ratings in the tables indicate the severity of individual limitations. The ratings are shown as decimal fractions ranging from 0.00 to 1.00. They indicate gradations between the point at which a soil feature has the greatest negative impact on the specified forest management practice (1.00) and the point at which the soil feature is not a limitation (0.00).

Rating class terms for fire damage and seedling mortality are expressed as *low*, *moderate*, and *high*. Where these terms are used, the numerical ratings indicate gradations between the point at which the potential for fire damage or seedling mortality is highest (1.00) and the point at which the potential is lowest (0.00).

The paragraphs that follow indicate the soil properties considered in rating the soils for forest management practices. More detailed information about the criteria used in the ratings is available in the "National Forestry Manual," which is available in local offices of the Natural Resources Conservation Service or on the Internet.

For *limitations affecting construction of haul roads and log landings*, the ratings are based on slope, flooding, permafrost, plasticity index, the hazard of soil slippage, content of sand, the Unified classification, rock fragments on or below the surface, depth to a restrictive layer that is indurated, depth to a water table, and ponding. The limitations are described as slight, moderate, or severe. A rating of *slight* indicates that no significant limitations affect construction activities, *moderate* indicates that one or more limitations can cause some difficulty in construction, and *severe* indicates that one or more limitations can make construction very difficult or very costly.

The ratings of *suitability for log landings* are based on slope, rock fragments on the surface, plasticity index, content of sand, the Unified classification, depth to a water table, ponding, flooding, and the hazard of soil slippage. The soils are described as well suited, moderately suited, or poorly suited to use as log landings.

Ratings in the column *soil rutting hazard* are based on depth to a water table, rock fragments on or below the surface, the Unified classification, depth to a restrictive

layer, and slope. Ruts form as a result of the operation of forest equipment. The hazard is described as slight, moderate, or severe. A rating of *slight* indicates that the soil is subject to little or no rutting, *moderate* indicates that rutting is likely, and *severe* indicates that ruts form readily.

Ratings in the column *hazard of off-road or off-trail erosion* are based on slope and on soil erodibility factor K. The soil loss is caused by sheet or rill erosion in off-road or off-trail areas where 50 to 75 percent of the surface has been exposed by logging, grazing, mining, or other kinds of disturbance. The hazard is described as slight, moderate, severe, or very severe. A rating of *slight* indicates that erosion is unlikely under ordinary climatic conditions; *moderate* indicates that some erosion is likely and that erosion-control measures may be needed; *severe* indicates that erosion is very likely and that erosion-control measures, including revegetation of bare areas, are advised; and *very severe* indicates that significant erosion is expected, loss of soil productivity and off-site damage are likely, and erosion-control measures are costly and generally impractical.

Ratings in the column *hazard of erosion on roads and trails* are based on the soil erodibility factor K, slope, and content of rock fragments. The ratings apply to unsurfaced roads and trails. The hazard is described as slight, moderate, or severe. A rating of *slight* indicates that little or no erosion is likely; *moderate* indicates that some erosion is likely, that the roads or trails may require occasional maintenance; and that simple erosion-control measures are needed; and *severe* indicates that significant erosion is expected, that the roads or trails require frequent maintenance, and that costly erosion-control measures are needed.

Ratings in the column *suitability for roads (natural surface)* are based on slope, rock fragments on the surface, plasticity index, content of sand, the Unified classification, depth to a water table, ponding, flooding, and the hazard of soil slippage. The ratings indicate the suitability for using the natural surface of the soil for roads. The soils are described as well suited, moderately well suited, or poorly suited to this use.

Ratings in the columns *suitability for hand planting* and *suitability for mechanical planting* are based on slope, depth to a restrictive layer, content of sand, plasticity index, rock fragments on or below the surface, depth to a water table, and ponding. The soils are described as well suited, moderately well suited, poorly suited, or unsuited to these methods of planting. It is assumed that necessary site preparation is completed before seedlings are planted.

Ratings in the column *suitability for use of harvesting equipment* are based on slope, rock fragments on the surface, plasticity index, content of sand, the Unified classification, depth to a water table, and ponding. The soils are described as well suited, moderately well suited, or poorly suited to this use.

Ratings in the column *suitability for mechanical site preparation (surface)* are based on slope, depth to a restrictive layer, plasticity index, rock fragments on or below the surface, depth to a water table, and ponding. The soils are described as well suited, poorly suited, or unsuited to this management activity. The part of the soil from the surface to a depth of about 1 foot is considered in the ratings.

Ratings in the column *suitability for mechanical site preparation (deep)* are based on slope, depth to a restrictive layer, rock fragments on or below the surface, depth to a water table, and ponding. The soils are described as well suited, poorly suited, or unsuited to this management activity. The part of the soil from the surface to a depth of about 3 feet is considered in the ratings.

Ratings in the column *potential for damage to soil by fire* are based on texture of the surface layer, content of rock fragments and organic matter in the surface layer, thickness of the surface layer, and slope. The soils are described as having a low, moderate, or high potential for this kind of damage. The ratings indicate an evaluation

of the potential impact of prescribed fires or wildfires that are intense enough to remove the duff layer and consume organic matter in the surface layer.

Ratings in the column *potential for seedling mortality* are based on flooding, ponding, depth to a water table, content of lime, reaction, salinity, available water capacity, soil moisture regime, soil temperature regime, aspect, and slope. The soils are described as having a low, moderate, or high potential for seedling mortality.

Recreation

The soils of the survey area are rated in Tables 13 and 14 according to limitations that affect their suitability for recreation. The ratings are both verbal and numerical. Rating class terms indicate the extent to which the soils are limited by all of the soil features that affect the recreational uses. *Not limited* indicates that the soil has features that are very favorable for the specified use. Good performance and very low maintenance can be expected. *Slightly limited* indicates that the soil has features that are favorable for the specified use. The limitations are minor and can be easily overcome. Good performance and low maintenance can be expected. *Somewhat limited* indicates that the soil has features that are moderately favorable for the specified use. The limitations can be overcome or minimized by special planning, design, or installation. Fair performance and moderate maintenance can be expected. *Very limited* indicates that the soil has one or more features that are unfavorable for the specified use. The limitations generally cannot be overcome without major soil reclamation, special design, or expensive installation procedures. Poor performance and high maintenance can be expected.

Numerical ratings in the tables indicate the severity of individual limitations. The ratings are shown as decimal fractions ranging from 0.00 to 1.00. They indicate gradations between the point at which a soil feature has the greatest negative impact on the use (1.00) and the point at which the soil feature is not a limitation (0.00).

The ratings in the tables are based on restrictive soil features, such as wetness, slope, and texture of the surface layer. Susceptibility to flooding is considered. Not considered in the ratings, but important in evaluating a site, are the location and accessibility of the area, the size and shape of the area and its scenic quality, vegetation, access to water, potential water impoundment sites, and access to public sewer lines. The capacity of the soil to absorb septic tank effluent and the ability of the soil to support vegetation also are important. Soils that are subject to flooding are limited for recreational uses by the duration and intensity of flooding and the season when flooding occurs. In planning recreational facilities, onsite assessment of the height, duration, intensity, and frequency of flooding is essential.

The information in Tables 13 and 14 can be supplemented by other information in this survey, for example, interpretations for building site development, construction materials, sanitary facilities, and water management.

Camp areas require site preparation, such as shaping and leveling the tent and parking areas, stabilizing roads and intensively used areas, and installing sanitary facilities and utility lines. Camp areas are subject to heavy foot traffic and some vehicular traffic. The ratings are based on the soil properties that affect the ease of developing camp areas and the performance of the areas after development. Slope, stoniness, and depth to bedrock or a cemented pan are the main concerns affecting the development of camp areas.

The soil properties that affect the performance of the areas after development are those that influence trafficability and promote the growth of vegetation, especially in heavily used areas. For good trafficability, the surface of camp areas should absorb rainfall readily, remain firm under heavy foot traffic, and not be dusty when dry. The soil properties that influence trafficability are texture of the surface layer, depth to a water table, ponding, flooding, permeability, and large stones. The soil properties that

affect the growth of plants are depth to bedrock or a cemented pan, permeability, and toxic substances in the soil.

Picnic areas are subject to heavy foot traffic. Most vehicular traffic is confined to access roads and parking areas. The ratings are based on the soil properties that affect the ease of developing picnic areas and that influence trafficability and the growth of vegetation after development. Slope and stoniness are the main concerns affecting the development of picnic areas. For good trafficability, the surface of picnic areas should absorb rainfall readily, remain firm under heavy foot traffic, and not be dusty when dry. The soil properties that influence trafficability are texture of the surface layer, depth to a water table, ponding, flooding, permeability, and large stones. The soil properties that affect the growth of plants are depth to bedrock or a cemented pan, permeability, and toxic substances in the soil.

Playgrounds require soils that are nearly level, are free of stones, and can withstand intensive foot traffic. The ratings are based on the soil properties that affect the ease of developing playgrounds and that influence trafficability and the growth of vegetation after development. Slope and stoniness are the main concerns affecting the development of playgrounds. For good trafficability, the surface of the playgrounds should absorb rainfall readily, remain firm under heavy foot traffic, and not be dusty when dry. The soil properties that influence trafficability are texture of the surface layer, depth to a water table, ponding, flooding, permeability, and large stones. The soil properties that affect the growth of plants are depth to bedrock or a cemented pan, permeability, and toxic substances in the soil.

Paths and trails for hiking and horseback riding should require little or no slope modification through cutting and filling. The ratings are based on the soil properties that affect trafficability and erodibility. These properties are stoniness, depth to a water table, ponding, flooding, slope, and texture of the surface layer.

Off-road motorcycle trails require little or no site preparation. They are not covered with surfacing material or vegetation. Considerable compaction of the soil material is likely. The ratings are based on the soil properties that influence erodibility, trafficability, dustiness, and the ease of revegetation. These properties are stoniness, slope, depth to a water table, ponding, flooding, and texture of the surface layer.

Golf fairways are subject to heavy foot traffic and some light vehicular traffic. Cutting or filling may be required. Irrigation is not considered in the ratings. The ratings are based on the soil properties that affect plant growth and trafficability after vegetation is established. The properties that affect plant growth are reaction; depth to a water table; ponding; depth to bedrock or a cemented pan; the available water capacity in the upper 40 inches; the content of salts, sodium, or calcium carbonate; and sulfidic materials. The properties that affect trafficability are flooding, depth to a water table, ponding, slope, stoniness, and the amount of sand, clay, or organic matter in the surface layer. The suitability of the soil for traps, tees, roughs, and greens is not considered in the ratings.

Hydric Soils

In this section, hydric soils are defined and described and the hydric soils in the survey area are listed.

The three essential characteristics of wetlands are hydrophytic vegetation, hydric soils, and wetland hydrology (Cowardin and others, 1979; U.S. Army Corps of Engineers, 1987; National Research Council, 1995; Tiner, 1985). Criteria for each of the characteristics must be met for areas to be identified as wetlands. Undrained hydric soils that have natural vegetation should support a dominant population of ecological wetland plant species. Hydric soils that have been converted to other uses should be capable of being restored to wetlands.

Hydric soils are defined by the National Technical Committee for Hydric Soils (NTCHS) as soils that formed under conditions of saturation, flooding, or ponding long enough during the growing season to develop anaerobic conditions in the upper part (Federal Register, 1994). These soils are either saturated or inundated long enough during the growing season to support the growth and reproduction of hydrophytic vegetation.

The NTCHS definition identifies general soil properties that are associated with wetness. In order to determine whether a specific soil is a hydric soil or nonhydric soil, however, more specific information, such as information about the depth and duration of the water table, is needed. Thus, criteria that identify those estimated soil properties unique to hydric soils have been established (Federal Register, 1995). These criteria are used to identify a phase of a soil series that normally is associated with wetlands. The criteria used are selected estimated soil properties that are described in "Soil Taxonomy" (USDA, 1999) and "Keys to Soil Taxonomy" (USDA, 1998) and in the "Soil Survey Manual" (USDA, 1993).

If soils are wet enough for a long enough period to be considered hydric, they should exhibit certain properties that can be easily observed in the field. These visible properties are indicators of hydric soils. The indicators used to make onsite determinations of hydric soils in this survey area are specified in "Field Indicators of Hydric Soils in the United States" (Hurt and others, 1996).

Hydric soils are identified by examining and describing the soil to a depth of about 20 inches. This depth may be greater if determination of an appropriate indicator so requires. It is always recommended that soils be excavated and described to the depth necessary for an understanding of the redoximorphic processes. Then, using the completed soil descriptions, soil scientists can compare the soil features required by each indicator and specify which indicators have been matched with the conditions observed in the soil. The soil can be identified as a hydric soil if at least one of the approved indicators is present.

The following map units have one or more components that meet the definition of hydric soils and, in addition, have at least one of the hydric soil indicators. This list can help in planning land uses; however, onsite investigation is recommended to determine the hydric soils on a specific site (National Research Council, 1995; Hurt and others, 1996).

- 14—Dalmatian-Apmay-Schrader complex, 0 to 5 percent slopes (Schrader part)
- 17—Fluvaquents-Haplustolls complex, 0 to 5 percent slopes (Fluvaquents part)
- 18—Endoaquolls-Ustifluvents complex, 0 to 5 percent slopes (Endoaquolls part)
- 53—Cryaquolls-Typic Cryaquents complex, 1 to 5 percent slopes (both components)
- 56—Typic Cryaquents-Cryaquolls-Cryofibrists complex, 0 to 5 percent slopes (Typic Cryaquents and Cryaquolls parts)
- 495—Riverwash
- 826—Ute-Frisco complex, 0 to 20 percent slopes (Ute part)
- 905—Cryaquolls, 0 to 3 percent slopes
- 951—Endoaquolls, 0 to 3 percent slopes
- 966—Cryaquepts, 0 to 6 percent slopes
- 967—Quazar-Cryaquolls-Cryohemists association, 1 to 30 percent slopes (Cryaquolls and Cryohemists parts)

Map units that are made up of hydric soils may have small areas, or inclusions, of nonhydric soils in the higher positions on the landform, and map units made up of

nonhydryc soils may have inclusions of hydric soils in the lower positions on the landform.

The following map units, in general, do not meet the definition of hydric soils because they do not have one of the hydric soil indicators. A portion of these map units, however, may include hydric soils. Onsite investigation is recommended to determine whether hydric soils occur and the location of the included hydric soils.

- 15—Umbarg loam, 0 to 5 percent slopes
- 57—Howardsville gravelly loam, 1 to 6 percent slopes
- 338—Henson very gravelly loam, 10 to 30 percent slopes
- 339—Henson very gravelly loam, 30 to 60 percent slopes
- 340—Moran very gravelly loam, 10 to 30 percent slopes
- 341—Moran very gravelly loam, 30 to 65 percent slopes
- 350—Flygare-Foidel complex, 0 to 15 percent slopes
- 355—Flygare-Foidel complex, 15 to 30 percent slopes
- 360—Blacksnag-Peeler complex, 2 to 15 percent slopes
- 361—Blacksnag-Peeler complex, 15 to 30 percent slopes
- 707—Teedown-Nordicol complex, 5 to 15 percent slopes
- 950—Pescar fine sandy loam
- 955—Umbarg-Winner-Tesajo complex, 0 to 2 percent slopes

Engineering

This section provides information for planning land uses related to urban development and to water management. Soils are rated for various uses, and the most limiting features are identified. Ratings are given for building site development, sanitary facilities, construction materials, and water management. The ratings are based on observed performance of the soils and on the estimated data and test data in the *Soil Properties* section.

Information in this section is intended for land use planning, for evaluating land use alternatives, and for planning site investigations prior to design and construction. The information, however, has limitations. For example, estimates and other data generally apply only to that part of the soil between the surface and a depth of 5 to 7 feet. Because of the map scale, small areas of different soils may be included within the mapped areas of a specific soil.

The information is not site specific and does not eliminate the need for onsite investigation of the soils or for testing and analysis by personnel experienced in the design and construction of engineering works.

Government ordinances and regulations that restrict certain land uses or impose specific design criteria were not considered in preparing the information in this section. Local ordinances and regulations should be considered in planning, in site selection, and in design.

Soil properties, site features, and observed performance were considered in determining the ratings in this section. During the fieldwork for this soil survey, determinations were made about particle-size distribution, liquid limit, plasticity index, soil reaction, depth to bedrock, hardness of bedrock within 5 to 7 feet of the surface, soil wetness, depth to a water table, ponding, slope, likelihood of flooding, natural soil structure aggregation, and soil density. Data were collected about kinds of clay minerals, mineralogy of the sand and silt fractions, and the kinds of adsorbed cations. Estimates were made for erodibility, permeability, corrosivity, shrink-swell potential, available water capacity, and other behavioral characteristics affecting engineering uses.

This information can be used to evaluate the potential of areas for residential, commercial, industrial, and recreational uses; make preliminary estimates of

construction conditions; evaluate alternative routes for roads, streets, highways, pipelines, and underground cables; evaluate alternative sites for sanitary landfills, septic tank absorption fields, and sewage lagoons; plan detailed onsite investigations of soils and geology; locate potential sources of gravel, sand, earthfill, and topsoil; plan drainage systems, irrigation systems, ponds, terraces, and other structures for soil and water conservation; and predict performance of proposed small structures and pavements by comparing the performance of existing similar structures on the same or similar soils.

The information in the tables, along with the soil maps, the soil descriptions, and other data provided in this survey, can be used to make additional interpretations.

Some of the terms used in this soil survey have a special meaning in soil science and are defined in the *Glossary*.

Building Site Development

Soil properties influence the development of building sites, including the selection of the site, the design of the structure, construction, performance after construction, and maintenance. Tables 15 and 16 show the degree and kind of soil limitations that affect dwellings with and without basements, small commercial buildings, local roads and streets, shallow excavations, and lawns and landscaping.

The ratings in the tables are both verbal and numerical. Rating class terms indicate the extent to which the soils are limited by all of the soil features that affect building site development. *Not limited* indicates that the soil has features that are very favorable for the specified use. Good performance and very low maintenance can be expected. *Slightly limited* indicates that the soil has features that are favorable for the specified use. The limitations are minor and can be easily overcome. Good performance and low maintenance can be expected. *Somewhat limited* indicates that the soil has features that are moderately favorable for the specified use. The limitations can be overcome or minimized by special planning, design, or installation. Fair performance and moderate maintenance can be expected. *Very limited* indicates that the soil has one or more features that are unfavorable for the specified use. The limitations generally cannot be overcome without major soil reclamation, special design, or expensive installation procedures. Poor performance and high maintenance can be expected.

Numerical ratings in the tables indicate the severity of individual limitations. The ratings are shown as decimal fractions ranging from 0.00 to 1.00. They indicate gradations between the point at which a soil feature has the greatest negative impact on the use (1.00) and the point at which the soil feature is not a limitation (0.00).

Dwellings are single-family houses of three stories or less. For dwellings without basements, the foundation is assumed to consist of spread footings of reinforced concrete built on undisturbed soil at a depth of 2 feet or at the depth of maximum frost penetration, whichever is deeper. For dwellings with basements, the foundation is assumed to consist of spread footings of reinforced concrete built on undisturbed soil at a depth of about 7 feet. The ratings for dwellings are based on the soil properties that affect the capacity of the soil to support a load without movement and on the properties that affect excavation and construction costs. The properties that affect the load-supporting capacity include depth to a water table, ponding, flooding, subsidence, linear extensibility (shrink-swell potential), and compressibility. Compressibility is inferred from the Unified classification. The properties that affect the ease and amount of excavation include depth to a water table, ponding, flooding, slope, depth to bedrock or a cemented pan, hardness of bedrock or a cemented pan, and the amount and size of rock fragments.

Small commercial buildings are structures that are less than three stories high and do not have basements. The foundation is assumed to consist of spread footings of reinforced concrete built on undisturbed soil at a depth of 2 feet or at the depth of

maximum frost penetration, whichever is deeper. The ratings are based on the soil properties that affect the capacity of the soil to support a load without movement and on the properties that affect excavation and construction costs. The properties that affect the load-supporting capacity include depth to a water table, ponding, flooding, subsidence, linear extensibility (shrink-swell potential), and compressibility (which is inferred from the Unified classification). The properties that affect the ease and amount of excavation include flooding, depth to a water table, ponding, slope, depth to bedrock or a cemented pan, hardness of bedrock or a cemented pan, and the amount and size of rock fragments.

Local roads and streets have an all-weather surface and carry automobile and light truck traffic all year. They have a subgrade of cut or fill soil material; a base of gravel, crushed rock, or soil material stabilized by lime or cement; and a surface of flexible material (asphalt), rigid material (concrete), or gravel with a binder. The ratings are based on the soil properties that affect the ease of excavation and grading and the traffic-supporting capacity. The properties that affect the ease of excavation and grading are depth to bedrock or a cemented pan, hardness of bedrock or a cemented pan, depth to a water table, ponding, flooding, the amount of large stones, and slope. The properties that affect the traffic-supporting capacity are soil strength (as inferred from the AASHTO group index number), subsidence, linear extensibility (shrink-swell potential), the potential for frost action, depth to a water table, and ponding.

Shallow excavations are trenches or holes dug to a maximum depth of 5 or 6 feet for graves, utility lines, open ditches, or other purposes. The ratings are based on the soil properties that influence the ease of digging and the resistance to sloughing. Depth to bedrock or a cemented pan, hardness of bedrock or a cemented pan, the amount of large stones, and dense layers influence the ease of digging, filling, and compacting. Depth to the seasonal high water table, flooding, and ponding may restrict the period when excavations can be made. Slope influences the ease of using machinery. Soil texture, depth to the water table, and linear extensibility (shrink-swell potential) influence the resistance to sloughing.

Lawns and landscaping require soils on which turf and ornamental trees and shrubs can be established and maintained. Irrigation is not considered in the ratings. The ratings are based on the soil properties that affect plant growth and trafficability after vegetation is established. The properties that affect plant growth are reaction; depth to a water table; ponding; depth to bedrock or a cemented pan; the available water capacity in the upper 40 inches; the content of salts, sodium, or calcium carbonate; and sulfidic materials. The properties that affect trafficability are flooding, depth to a water table, ponding, slope, stoniness, and the amount of sand, clay, or organic matter in the surface layer.

Sanitary Facilities

Tables 17 and 18 show the degree and kind of soil limitations that affect septic tank absorption fields, sewage lagoons, sanitary landfills, and daily cover for landfill. The ratings are both verbal and numerical. Rating class terms indicate the extent to which the soils are limited by all of the soil features that affect these uses. *Not limited* indicates that the soil has features that are very favorable for the specified use. Good performance and very low maintenance can be expected. *Slightly limited* indicates that the soil has features that are favorable for the specified use. The limitations are minor and can be easily overcome. Good performance and low maintenance can be expected. *Somewhat limited* indicates that the soil has features that are moderately favorable for the specified use. The limitations can be overcome or minimized by special planning, design, or installation. Fair performance and moderate maintenance can be expected. *Very limited* indicates that the soil has one or more features that are unfavorable for the specified use. The limitations generally cannot be overcome.

without major soil reclamation, special design, or expensive installation procedures. Poor performance and high maintenance can be expected.

Numerical ratings in the tables indicate the severity of individual limitations. The ratings are shown as decimal fractions ranging from 0.00 to 1.00. They indicate gradations between the point at which a soil feature has the greatest negative impact on the use (1.00) and the point at which the soil feature is not a limitation (0.00).

Septic tank absorption fields are areas in which effluent from a septic tank is distributed into the soil through subsurface tiles or perforated pipe. Only that part of the soil between depths of 24 and 60 inches is evaluated. The ratings are based on the soil properties that affect absorption of the effluent, construction and maintenance of the system, and public health. Permeability, depth to a water table, ponding, depth to bedrock or a cemented pan, and flooding affect absorption of the effluent. Stones and boulders, ice, and bedrock or a cemented pan interfere with installation. Subsidence interferes with installation and maintenance. Excessive slope may cause lateral seepage and surfacing of the effluent in downslope areas.

Some soils are underlain by loose sand and gravel or fractured bedrock at a depth of less than 4 feet below the distribution lines. In these soils the absorption field may not adequately filter the effluent, particularly when the system is new. As a result, the ground water may become contaminated.

Sewage lagoons are shallow ponds constructed to hold sewage while aerobic bacteria decompose the solid and liquid wastes. Lagoons should have a nearly level floor surrounded by cut slopes or embankments of compacted soil. Nearly impervious soil material for the lagoon floor and sides is required to minimize seepage and contamination of ground water. Considered in the ratings are slope, permeability, depth to a water table, ponding, depth to bedrock or a cemented pan, flooding, large stones, and content of organic matter.

Soil permeability is a critical property affecting the suitability for sewage lagoons. Most porous soils eventually become sealed when they are used as sites for sewage lagoons. Until sealing occurs, however, the hazard of pollution is severe. Soils that have a permeability rate of more than 2 inches per hour are too porous for the proper functioning of sewage lagoons. In these soils, seepage of the effluent can result in contamination of the ground water. Ground water contamination is also a hazard if fractured bedrock is within a depth of 40 inches, if the water table is high enough to raise the level of sewage in the lagoon, or if floodwater overtops the lagoon.

A high content of organic matter is detrimental to proper functioning of the lagoon because it inhibits aerobic activity. Slope, bedrock, and cemented pans can cause construction problems, and large stones can hinder compaction of the lagoon floor. If the lagoon is to be uniformly deep throughout, the slope must be gentle enough and the soil material must be thick enough over bedrock or a cemented pan to make land smoothing practical.

A trench sanitary landfill is an area where solid waste is placed in successive layers in an excavated trench. The waste is spread, compacted, and covered daily with a thin layer of soil excavated at the site. When the trench is full, a final cover of soil material at least 2 feet thick is placed over the landfill. The ratings in the table are based on the soil properties that affect the risk of pollution, the ease of excavation, trafficability, and revegetation. These properties include permeability, depth to bedrock or a cemented pan, depth to a water table, ponding, slope, flooding, texture, stones and boulders, highly organic layers, soil reaction, and content of salts and sodium. Unless otherwise stated, the ratings apply only to that part of the soil within a depth of about 6 feet. For deeper trenches, onsite investigation may be needed.

Hard, nonrippable bedrock, creviced bedrock, or highly permeable strata in or directly below the proposed trench bottom can affect the ease of excavation and the hazard of ground water pollution. Slope affects construction of the trenches and the

movement of surface water around the landfill. It also affects the construction and performance of roads in areas of the landfill.

Soil texture and consistence affect the ease with which the trench is dug and the ease with which the soil can be used as daily or final cover. They determine the workability of the soil when dry and when wet. Soils that are plastic and sticky when wet are difficult to excavate, grade, or compact and are difficult to place as a uniformly thick cover over a layer of refuse.

The soil material used as the final cover for a trench landfill should be suitable for plants. It should not have excess sodium or salts and should not be too acid. The surface layer generally has the best workability, the highest content of organic matter, and the best potential for plants. Material from the surface layer should be stockpiled for use as the final cover.

In an *area sanitary landfill*, solid waste is placed in successive layers on the surface of the soil. The waste is spread, compacted, and covered daily with a thin layer of soil from a source away from the site. A final cover of soil material at least 2 feet thick is placed over the completed landfill. The ratings in the table are based on the soil properties that affect trafficability and the risk of pollution. These properties include flooding, permeability, depth to a water table, ponding, slope, and depth to bedrock or a cemented pan.

Flooding is a serious problem because it can result in pollution in areas downstream from the landfill. If permeability is too rapid or if fractured bedrock, a fractured cemented pan, or the water table is close to the surface, the leachate can contaminate the water supply. Slope is a consideration because of the extra grading required to maintain roads in the steeper areas of the landfill. Also, leachate may flow along the surface of the soils in the steeper areas and cause difficult seepage problems.

Daily cover for landfill is the soil material that is used to cover compacted solid waste in an area sanitary landfill. The soil material is obtained offsite, transported to the landfill, and spread over the waste. The ratings in the table also apply to the final cover for a landfill. They are based on the soil properties that affect workability, the ease of digging, and the ease of moving and spreading the material over the refuse daily during wet and dry periods. These properties include soil texture, depth to a water table, ponding, rock fragments, slope, depth to bedrock or a cemented pan, reaction, and content of salts, sodium, or lime.

Loamy or silty soils that are free of large stones and excess gravel are the best cover for a landfill. Clayey soils may be sticky and difficult to spread; sandy soils are subject to wind erosion.

Slope affects the ease of excavation and of moving the cover material. Also, it can influence runoff, erosion, and reclamation of the borrow area.

After soil material has been removed, the soil material remaining in the borrow area must be thick enough over bedrock, a cemented pan, or the water table to permit revegetation. The soil material used as the final cover for a landfill should be suitable for plants. It should not have excess sodium, salts, or lime and should not be too acid.

Construction Materials

Tables 19 and 20 give information about the soils as potential sources of gravel, sand, topsoil, reclamation material, and roadfill. Normal compaction, minor processing, and other standard construction practices are assumed.

The soils are rated *good*, *fair*, or *poor* as potential sources of topsoil, reclamation material, and roadfill. The features that limit the soils as sources of these materials are specified in the tables. The numerical ratings given after the specified features indicate the degree to which the features limit the soils as sources of topsoil, reclamation material, or roadfill. The lower the number, the greater the limitation.

Sand and gravel are natural aggregates suitable for commercial use with a minimum of processing. They are used in many kinds of construction. Specifications for each use vary widely. In Table 19, only the probability of finding material in suitable quantity is evaluated. The suitability of the material for specific purposes is not evaluated, nor are factors that affect excavation of the material. The properties used to evaluate the soil as a source of sand or gravel are gradation of grain sizes (as indicated by the Unified classification of the soil), the thickness of suitable material, and the content of rock fragments. If the lowest layer of the soil contains sand or gravel, the soil is rated as a probable source regardless of thickness. The assumption is that the sand or gravel layer below the depth of observation exceeds the minimum thickness.

Topsoil is used to cover an area so that vegetation can be established and maintained. The upper 40 inches of a soil is evaluated for use as topsoil. Also evaluated is the reclamation potential of the borrow area. The ratings are based on the soil properties that affect plant growth; the ease of excavating, loading, and spreading the material; and reclamation of the borrow area. Toxic substances, soil reaction, and the properties that are inferred from soil texture, such as available water capacity and fertility, affect plant growth. The ease of excavating, loading, and spreading is affected by rock fragments, slope, depth to a water table, soil texture, and thickness of suitable material. Reclamation of the borrow area is affected by slope, depth to a water table, rock fragments, depth to bedrock or a cemented pan, and toxic material.

The surface layer of most soils is generally preferred for topsoil because of its organic matter content. Organic matter greatly increases the absorption and retention of moisture and nutrients for plant growth.

Reclamation material is used in areas that have been drastically disturbed by surface mining or similar activities. When these areas are reclaimed, layers of soil material or unconsolidated geological material, or both, are replaced in a vertical sequence. The reconstructed soil favors plant growth. The ratings in the table do not apply to quarries and other mined areas that require an offsite source of reconstruction material. The ratings are based on the soil properties that affect erosion and stability of the surface and the productive potential of the reconstructed soil. These properties include the content of sodium, salts, and calcium carbonate; reaction; available water capacity; erodibility; texture; content of rock fragments; and content of organic matter and other features that affect fertility.

Roadfill is soil material that is excavated in one place and used in road embankments in another place. In this table, the soils are rated as a source of roadfill for low embankments, generally less than 6 feet high and less exacting in design than higher embankments.

The ratings are for the whole soil, from the surface to a depth of about 5 feet. It is assumed that soil layers will be mixed when the soil material is excavated and spread.

The ratings are based on the amount of suitable material and on soil properties that affect the ease of excavation and the performance of the material after it is in place. The thickness of the suitable material is a major consideration. The ease of excavation is affected by large stones, depth to a water table, and slope. How well the soil performs in place after it has been compacted and drained is determined by its strength (as inferred from the AASHTO classification of the soil) and linear extensibility (shrink-swell potential).

Water Management

Table 21 gives information on the soil properties and site features that affect water management. The degree and kind of soil limitations are given for pond reservoir areas; embankments, dikes, and levees; and aquifer-fed excavated ponds. The

ratings are both verbal and numerical. Rating class terms indicate the extent to which the soils are limited by all of the soil features that affect these uses. *Not limited* indicates that the soil has features that are very favorable for the specified use. Good performance and very low maintenance can be expected. *Somewhat limited* indicates that the soil has features that are moderately favorable for the specified use. The limitations can be overcome or minimized by special planning, design, or installation. Fair performance and moderate maintenance can be expected. *Very limited* indicates that the soil has one or more features that are unfavorable for the specified use. The limitations generally cannot be overcome without major soil reclamation, special design, or expensive installation procedures. Poor performance and high maintenance can be expected.

Numerical ratings in the tables indicate the severity of individual limitations. The ratings are shown as decimal fractions ranging from 0.01 to 1.00. They indicate gradations between the point at which a soil feature has the greatest negative impact on the use (1.00) and the point at which the soil feature is not a limitation (0.00).

Pond reservoir areas hold water behind a dam or embankment. Soils best suited to this use have low seepage potential in the upper 60 inches. The seepage potential is determined by the permeability of the soil and the depth to fractured bedrock or other permeable material. Excessive slope can affect the storage capacity of the reservoir area.

Embankments, dikes, and levees are raised structures of soil material, generally less than 20 feet high, constructed to impound water or to protect land against overflow. Embankments that have zoned construction (core and shell) are not considered. In this table, the soils are rated as a source of material for embankment fill. The ratings apply to the soil material below the surface layer to a depth of about 5 feet. It is assumed that soil layers will be uniformly mixed and compacted during construction.

The ratings do not indicate the ability of the natural soil to support an embankment. Soil properties to a depth even greater than the height of the embankment can affect performance and safety of the embankment. Generally, deeper onsite investigation is needed to determine these properties.

Soil material in embankments must be resistant to seepage, piping, and erosion and have favorable compaction characteristics. Unfavorable features include less than 5 feet of suitable material and a high content of stones or boulders, organic matter, or salts or sodium. A high water table affects the amount of usable material. It also affects trafficability.

Aquifer-fed excavated ponds are pits or dugouts that extend to a ground water aquifer or to a depth below a permanent water table. Excluded are ponds that are fed only by surface runoff and embankment ponds that impound water 3 feet or more above the original surface. Excavated ponds are affected by depth to a permanent water table, permeability of the aquifer, and quality of the water as inferred from the salinity of the soil. Depth to bedrock and the content of large stones affect the ease of excavation.

Soil Properties

Data relating to soil properties are collected during the course of the soil survey.

Soil properties are ascertained by field examination of the soils and by laboratory index testing of some benchmark soils. Established standard procedures are followed. During the survey, many shallow borings are made and examined to identify and classify the soils and to delineate them on the soil maps. Samples are taken from some typical profiles and tested in the laboratory to determine particle-size distribution, plasticity, and compaction characteristics.

Estimates of soil properties are based on field examinations, on laboratory tests of samples from the survey area, and on laboratory tests of samples of similar soils in nearby areas. Tests verify field observations, verify properties that cannot be estimated accurately by field observation, and help to characterize key soils.

The estimates of soil properties are shown in the tables: they include engineering index properties, physical and chemical properties, and pertinent soil and water features.

Engineering Index Properties

Table 23 gives the engineering classifications and the range of index properties for the layers of each soil in the survey area.

Depth to the upper and lower boundaries of each layer is indicated.

Texture is given in the standard terms used by the U.S. Department of Agriculture. These terms are defined according to percentages of sand, silt, and clay in the fraction of the soil that is less than 2 millimeters in diameter. "Loam," for example, is soil that is 7 to 27 percent clay, 28 to 50 percent silt, and less than 52 percent sand. If the content of particles coarser than sand is 15 percent or more, an appropriate modifier is added, for example, "gravelly." Textural terms are defined in the Glossary.

Classification of the soils is determined according to the Unified soil classification system (ASTM, 1998) and the system adopted by the American Association of State Highway and Transportation Officials (AASHTO, 1998).

The Unified system classifies soils according to properties that affect their use as construction material. Soils are classified according to particle-size distribution of the fraction less than 3 inches in diameter and according to plasticity index, liquid limit, and organic matter content. Sandy and gravelly soils are identified as GW, GP, GM, GC, SW, SP, SM, and SC; silty and clayey soils as ML, CL, OL, MH, CH, and OH; and highly organic soils as PT. Soils exhibiting engineering properties of two groups can have a dual classification, for example, CL-ML.

The AASHTO system classifies soils according to those properties that affect roadway construction and maintenance. In this system, the fraction of a mineral soil that is less than 3 inches in diameter is classified in one of seven groups from A-1 through A-7 on the basis of particle-size distribution, liquid limit, and plasticity index. Soils in group A-1 are coarse grained and low in content of fines (silt and clay). At the other extreme, soils in group A-7 are fine grained. Highly organic soils are classified in group A-8 on the basis of visual inspection.

If laboratory data are available, the A-1, A-2, and A-7 groups are further classified as A-1-a, A-1-b, A-2-4, A-2-5, A-2-6, A-2-7, A-7-5, or A-7-6. As an additional

refinement, the suitability of a soil as subgrade material can be indicated by a group index number. Group index numbers range from 0 for the best subgrade material to 20 or higher for the poorest.

Rock fragments larger than 10 inches in diameter and 3 to 10 inches in diameter are indicated as a percentage of the total soil on a dry-weight basis. The percentages are estimates determined mainly by converting volume percentage in the field to weight percentage.

Percentage (of soil particles) passing designated sieves is the percentage of the soil fraction less than 3 inches in diameter based on an oven-dry weight. The sieves, numbers 4, 10, 40, and 200 (USA Standard Series), have openings of 4.76, 2.00, 0.420, and 0.074 millimeters, respectively. Estimates are based on laboratory tests of soils sampled in the survey area and in nearby areas and on estimates made in the field.

Liquid limit and *plasticity index* (Atterberg limits) indicate the plasticity characteristics of a soil. The estimates are based on test data from the survey area or from nearby areas and on field examination.

The estimates of particle-size distribution, liquid limit, and plasticity index are generally rounded to the nearest 5 percent. Thus, if the ranges of gradation and Atterberg limits extend a marginal amount (1 or 2 percentage points) across classification boundaries, the classification in the marginal zone is generally omitted in the table.

Physical Properties

Table 24 shows estimates of some physical characteristics and features that affect soil behavior. These estimates are given for the layers of each soil in the survey area. The estimates are based on field observations and on test data for these and similar soils.

Depth to the upper and lower boundaries of each layer is indicated.

Particle size is the effective diameter of a soil particle as measured by sedimentation, sieving, or micrometric methods. Particle sizes are expressed as classes with specific effective diameter class limits. The broad classes are sand, silt, and clay, ranging from the larger to the smaller.

Sand as a soil separate consists of mineral soil particles that are 0.05 millimeter to 2 millimeters in diameter. In Table 24, the estimated sand content of each soil layer is given as a percentage, by weight, of the soil material that is less than 2 millimeters in diameter.

Silt as a soil separate consists of mineral soil particles that are 0.002 to 0.05 millimeter in diameter. In Table 24, the estimated silt content of each soil layer is given as a percentage, by weight, of the soil material that is less than 2 millimeters in diameter.

Clay as a soil separate consists of mineral soil particles that are less than 0.002 millimeter in diameter. In Table 24, the estimated clay content of each soil layer is given as a percentage, by weight, of the soil material that is less than 2 millimeters in diameter.

The content of sand, silt, and clay affects the physical behavior of a soil. Particle size is important for engineering and agronomic interpretations, for determination of soil hydrologic qualities, and for soil classification.

The amount and kind of clay affect the fertility and physical condition of the soil and the ability of the soil to adsorb cations and to retain moisture. They influence shrink-swell potential, permeability, plasticity, the ease of soil dispersion, and other soil properties. The amount and kind of clay in a soil also affect tillage and earthmoving operations.

Moist bulk density is the weight of soil (oven-dry) per unit volume. Volume is measured when the soil is at field moisture capacity, that is, the moisture content at $1/3$ - or $1/10$ -bar (33kPa or 10kPa) moisture tension. Weight is determined after the soil is dried at 105 degrees C. In the table, the estimated moist bulk density of each soil horizon is expressed in grams per cubic centimeter of soil material that is less than 2 millimeters in diameter. Bulk density data are used to compute shrink-swell potential, available water capacity, total pore space, and other soil properties. The moist bulk density of a soil indicates the pore space available for water and roots. Depending upon soil texture, a bulk density of more than 1.4 can restrict water storage and root penetration. Moist bulk density is influenced by texture, kind of clay, content of organic matter, and soil structure.

Permeability (K_{sat}) refers to the ability of a soil to transmit water or air. The term "permeability," as used in soil surveys, indicates saturated hydraulic conductivity (K_{sat}). The estimates in the table indicate the rate of water movement, in inches per hour, when the soil is saturated. They are based on soil characteristics observed in the field, particularly structure, porosity, and texture. Permeability is considered in the design of soil drainage systems and septic tank absorption fields.

Available water capacity refers to the quantity of water that the soil is capable of storing for use by plants. The capacity for water storage is given in inches of water per inch of soil for each soil layer. The capacity varies, depending on soil properties that affect retention of water. The most important properties are the content of organic matter, soil texture, bulk density, and soil structure. Available water capacity is an important factor in the choice of plants or crops to be grown and in the design and management of irrigation systems. Available water capacity is not an estimate of the quantity of water actually available to plants at any given time.

Linear extensibility refers to the change in length of an unconfined clod as moisture content is decreased from a moist to a dry state. It is an expression of the volume change between the water content of the clod at $1/3$ - or $1/10$ -bar tension (33kPa or 10kPa tension) and oven dryness. The volume change is reported in the table as percent change for the whole soil. Volume change is influenced by the amount and type of clay minerals in the soil.

Linear extensibility is used to determine the shrink-swell potential of soils. The shrink-swell potential is low if the soil has a linear extensibility of less than 3 percent; moderate if 3 to 6 percent; high if 6 to 9 percent; and very high if more than 9 percent. If the linear extensibility is more than 3, shrinking and swelling can cause damage to buildings, roads, and other structures and to plant roots. Special design commonly is needed.

Organic matter is the plant and animal residue in the soil at various stages of decomposition. In Table 24, the estimated content of organic matter is expressed as a percentage, by weight, of the soil material that is less than 2 millimeters in diameter.

The content of organic matter in a soil can be maintained by returning crop residue to the soil. Organic matter has a positive effect on available water capacity, water infiltration, soil organism activity, and tilth. It is a source of nitrogen and other nutrients for crops and soil organisms.

Erosion factors are shown in Table 24 as the K factor (K_w and K_f) and the T factor. Erosion factor K indicates the susceptibility of a soil to sheet and rill erosion by water. Factor K is one of several factors used in the Universal Soil Loss Equation (USLE) and the Revised Universal Soil Loss Equation (RUSLE) to predict the average annual rate of soil loss by sheet and rill erosion in tons per acre per year. The estimates are based primarily on percentage of silt, sand, and organic matter and on soil structure and permeability. Values of K range from 0.02 to 0.69. Other factors being equal, the higher the value, the more susceptible the soil is to sheet and rill erosion by water.

Erosion factor K_w indicates the erodibility of the whole soil. The estimates are modified by the presence of rock fragments.

Erosion factor Kf indicates the erodibility of the fine-earth fraction, or the material less than 2 millimeters in size.

Erosion factor T is an estimate of the maximum average annual rate of soil erosion by wind or water that can occur without affecting crop productivity over a sustained period. The rate is in tons per acre per year.

Wind erodibility groups are made up of soils that have similar properties affecting their susceptibility to wind erosion in cultivated areas. The soils assigned to group 1 are the most susceptible to wind erosion, and those assigned to group 8 are the least susceptible. The groups are as follows:

1. Coarse sands, sands, fine sands, and very fine sands.
2. Loamy coarse sands, loamy sands, loamy fine sands, loamy very fine sands, ash material, and sapric soil material.
3. Coarse sandy loams, sandy loams, fine sandy loams, and very fine sandy loams.
- 4L. Calcareous loams, silt loams, clay loams, and silty clay loams.
4. Clays, silty clays, noncalcareous clay loams, and silty clay loams that are more than 35 percent clay.
5. Noncalcareous loams and silt loams that are less than 20 percent clay and sandy clay loams, sandy clays, and hemic soil material.
6. Noncalcareous loams and silt loams that are more than 20 percent clay and noncalcareous clay loams that are less than 35 percent clay.
7. Silts, noncalcareous silty clay loams that are less than 35 percent clay, and fibric soil material.
8. Soils that are not subject to wind erosion because of coarse fragments on the surface or because of surface wetness.

Wind erodibility index is a numerical value indicating the susceptibility of soil to wind erosion, or the tons per acre per year that can be expected to be lost to wind erosion. There is a close correlation between wind erosion and the texture of the surface layer, the size and durability of surface clods, rock fragments, organic matter, and a calcareous reaction. Soil moisture and frozen soil layers also influence wind erosion.

Chemical Properties

Table 25 shows estimates of some chemical characteristics and features that affect soil behavior. These estimates are given for the layers of each soil in the survey area. The estimates are based on field observations and on test data for these and similar soils.

Depth to the upper and lower boundaries of each layer is indicated.

Cation-exchange capacity is the total amount of extractable bases that can be held by the soil, expressed in terms of milliequivalents per 100 grams of soil at neutrality (pH 7.0) or at some other stated pH value. Soils having a low cation-exchange capacity hold fewer cations and may require more frequent applications of fertilizer than soils having a high cation-exchange capacity. The ability to retain cations reduces the hazard of ground-water pollution.

Effective cation-exchange capacity refers to the sum of extractable bases plus aluminum expressed in terms of milliequivalents per 100 grams of soil. It is determined for soils that have pH of less than 5.5.

Soil reaction is a measure of acidity or alkalinity. The pH of each soil horizon is based on many field tests. For many soils, values have been verified by laboratory analyses. Soil reaction is important in selecting crops and other plants, in evaluating soil amendments for fertility and stabilization, and in determining the risk of corrosion.

Calcium carbonate equivalent is the percent of carbonates, by weight, in the fraction of the soil less than 2 millimeters in size. The availability of plant nutrients is influenced by the amount of carbonates in the soil. Incorporating nitrogen fertilizer into calcareous soils helps to prevent nitrite accumulation and ammonium-N volatilization.

Gypsum is expressed as a percent, by weight, of hydrated calcium sulfates in the fraction of the soil less than 20 millimeters in size. Gypsum is partially soluble in water. Soils that have a high content of gypsum may collapse if the gypsum is removed by percolating water.

Salinity is a measure of soluble salts in the soil at saturation. It is expressed as the electrical conductivity of the saturation extract, in millimhos per centimeter at 25 degrees C. Estimates are based on field and laboratory measurements at representative sites of nonirrigated soils. The salinity of irrigated soils is affected by the quality of the irrigation water and by the frequency of water application. Hence, the salinity of soils in individual fields can differ greatly from the value given in the table. Salinity affects the suitability of a soil for crop production, the stability of soil if used as construction material, and the potential of the soil to corrode metal and concrete.

Sodium adsorption ratio (SAR) is a measure of the amount of sodium (Na) relative to calcium (Ca) and magnesium (Mg) in the water extract from saturated soil paste. It is the ratio of the Na concentration divided by the square root of one-half of the Ca + Mg concentration. Soils that have SAR values of 13 or more may be characterized by an increased dispersion of organic matter and clay particles, reduced permeability and aeration, and a general degradation of soil structure.

Water Features

Table 26 gives estimates of various water features. The estimates are used in land use planning that involves engineering considerations.

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The four hydrologic soil groups are:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

The *months* in the table indicate the portion of the year in which the feature is most likely to be a concern.

Water table refers to a saturated zone in the soil. Table 26 indicates, by month, depth to the top (*upper limit*) and base (*lower limit*) of the saturated zone in most years. Estimates of the upper and lower limits are based mainly on observations of the water table at selected sites and on evidence of a saturated zone, namely grayish colors or mottles (redoximorphic features) in the soil. A saturated zone that lasts for less than a month is not considered a water table.

Ponding is standing water in a closed depression. Unless a drainage system is installed, the water is removed only by percolation, transpiration, or evaporation. Table 26 indicates *surface water depth* and the *duration* and *frequency* of ponding. Duration is expressed as *very brief* if less than 2 days, *brief* if 2 to 7 days, *long* if 7 to 30 days, and *very long* if more than 30 days. Frequency is expressed as none, rare, occasional, and frequent. *None* means that ponding is not probable; *rare* that it is unlikely but possible under unusual weather conditions (the chance of ponding is nearly 0 percent to 5 percent in any year); *occasional* that it occurs, on the average, once or less in 2 years (the chance of ponding is 5 to 50 percent in any year); and *frequent* that it occurs, on the average, more than once in 2 years (the chance of ponding is more than 50 percent in any year).

Flooding is the temporary inundation of an area caused by overflowing streams, by runoff from adjacent slopes, or by tides. Water standing for short periods after rainfall or snowmelt is not considered flooding, and water standing in swamps and marshes is considered ponding rather than flooding.

Duration and *frequency* are estimated. Duration is expressed as *extremely brief* if 0.1 hour to 4 hours, *very brief* if 4 hours to 2 days, *brief* if 2 to 7 days, *long* if 7 to 30 days, and *very long* if more than 30 days. Frequency is expressed as none, very rare, rare, occasional, frequent, and very frequent. *None* means that flooding is not probable; *very rare* that it is very unlikely but possible under extremely unusual weather conditions (the chance of flooding is less than 1 percent in any year); *rare* that it is unlikely but possible under unusual weather conditions (the chance of flooding is 1 to 5 percent in any year); *occasional* that it occurs infrequently under normal weather conditions (the chance of flooding is 5 to 50 percent in any year); *frequent* that it is likely to occur often under normal weather conditions (the chance of flooding is more than 50 percent in any year but is less than 50 percent in all months in any year); and *very frequent* that it is likely to occur very often under normal weather conditions (the chance of flooding is more than 50 percent in all months of any year).

The information is based on evidence in the soil profile, namely thin strata of gravel, sand, silt, or clay deposited by floodwater; irregular decrease in organic matter content with increasing depth; and little or no horizon development.

Also considered are local information about the extent and levels of flooding and the relation of each soil on the landscape to historic floods. Information on the extent of flooding based on soil data is less specific than that provided by detailed engineering surveys that delineate flood-prone areas at specific flood frequency levels.

Soil Features

Table 27 gives estimates of various soil features. The estimates are used in land use planning that involves engineering considerations.

A *restrictive layer* is a nearly continuous layer that has one or more physical, chemical, or thermal properties that significantly impede the movement of water and air through the soil or that restrict roots or otherwise provide an unfavorable root environment. Examples are bedrock, cemented layers, dense layers, and frozen layers. The table indicates the hardness and thickness of the restrictive layer, both

of which significantly affect the ease of excavation. *Depth to top* is the vertical distance from the soil surface to the upper boundary of the restrictive layer.

Subsidence is the settlement of organic soils or of saturated mineral soils of very low density. Subsidence generally results from either desiccation and shrinkage or oxidation of organic material, or both, following drainage. Subsidence takes place gradually, usually over a period of several years. The table shows the expected initial subsidence, which usually is a result of drainage, and total subsidence, which results from a combination of factors.

Potential for frost action is the likelihood of upward or lateral expansion of the soil caused by the formation of segregated ice lenses (frost heave) and the subsequent collapse of the soil and loss of strength on thawing. Frost action occurs when moisture moves into the freezing zone of the soil. Temperature, texture, density, permeability, content of organic matter, and depth to the water table are the most important factors considered in evaluating the potential for frost action. It is assumed that the soil is not insulated by vegetation or snow and is not artificially drained. Silty and highly structured, clayey soils that have a high water table in winter are the most susceptible to frost action. Well drained, very gravelly, or very sandy soils are the least susceptible. Frost heave and low soil strength during thawing cause damage to pavements and other rigid structures.

Risk of corrosion pertains to potential soil-induced electrochemical or chemical action that corrodes or weakens uncoated steel or concrete. The rate of corrosion of uncoated steel is related to such factors as soil moisture, particle-size distribution, acidity, and electrical conductivity of the soil. The rate of corrosion of concrete is based mainly on the sulfate and sodium content, texture, moisture content, and acidity of the soil. Special site examination and design may be needed if the combination of factors results in a severe hazard of corrosion. The steel or concrete in installations that intersect soil boundaries or soil layers is more susceptible to corrosion than the steel or concrete in installations that are entirely within one kind of soil or within one soil layer.

For uncoated steel, the risk of corrosion, expressed as *low*, *moderate*, or *high*, is based on soil drainage class, total acidity, electrical resistivity near field capacity, and electrical conductivity of the saturation extract.

For concrete, the risk of corrosion also is expressed as *low*, *moderate*, or *high*. It is based on soil texture, acidity, and amount of sulfates in the saturation extract.

Classification of the Soils

The system of soil classification used by the National Cooperative Soil Survey has six categories (USDA, 1998 and 1999). Beginning with the broadest, these categories are the order, suborder, great group, subgroup, family, and series. Classification is based on soil properties observed in the field or inferred from those observations or from laboratory measurements. Table 22 shows the classification of the soils in the survey area. The categories are defined in the following paragraphs.

ORDER. Twelve soil orders are recognized. The differences among orders reflect the dominant soil-forming processes and the degree of soil formation. Each order is identified by a word ending in *sol*. An example is Alfisol.

SUBORDER. Each order is divided into suborders primarily on the basis of properties that influence soil genesis and are important to plant growth or properties that reflect the most important variables within the orders. The last syllable in the name of a suborder indicates the order. An example is Cryalf (*Cry*, meaning cold, plus *alf*, from Alfisol).

GREAT GROUP. Each suborder is divided into great groups on the basis of close similarities in kind, arrangement, and degree of development of pedogenic horizons; soil moisture and temperature regimes; type of saturation; and base status. Each great group is identified by the name of a suborder and by a prefix that indicates a property of the soil. An example is Haplocryalfs (*Hapl*, meaning minimal horizonation, plus *cryalf*, the suborder of the Alfisols that has a cryic temperature regime).

SUBGROUP. Each great group has a typic subgroup. Other subgroups are intergrades or extragrades. The typic subgroup is the central concept of the great group; it is not necessarily the most extensive. Intergrades are transitions to other orders, suborders, or great groups. Extragrades have some properties that are not representative of the great group but do not indicate transitions to any other taxonomic class. Each subgroup is identified by one or more adjectives preceding the name of the great group. The adjective *Eutric* identifies the subgroup that has high base saturation. An example is Eutric Haplocryalfs.

FAMILY. Families are established within a subgroup on the basis of physical and chemical properties and other characteristics that affect management. Generally, the properties are those of horizons below plow depth where there is much biological activity. Among the properties and characteristics considered are particle size, mineral content, soil temperature regime, soil depth, and reaction. A family name consists of the name of a subgroup preceded by terms that indicate soil properties. An example is loamy-skeletal, mixed, superactive, Eutric Haplocryalfs.

SERIES. The series consists of soils within a family that have horizons similar in color, texture, structure, reaction, consistence, mineral and chemical composition, and arrangement in the profile.

Soil Series and Their Morphology

In this section, each soil series recognized in the survey area is described. Characteristics of the soil and the material in which it formed are identified for each series. A pedon, a small three-dimensional area of soil, that is typical of the series in the survey area is described. The detailed description of each soil horizon follows

standards in the “Soil Survey Manual” (USDA, 1993). Many of the technical terms used in the descriptions are defined in “Soil Taxonomy” (USDA, 1999) and in “Keys to Soil Taxonomy” (USDA, 1998). Unless otherwise indicated, colors in the descriptions are for dry soil. Following the pedon description is the range of important characteristics of the soils in the series.

Adel Series

The Adel series consists of very deep, well drained soils on mountain slopes, mesas, and alluvial fans. These soils formed in alluvium and slope alluvium from mixed sources. The slopes range from 1 to 50 percent. The elevation ranges from 8,000 to 11,000 feet. Average annual precipitation ranges from 25 to 35 inches. The average annual air temperature ranges from 35 to 40 degrees F.

These soils are fine-loamy, mixed, superactive Pachic Haplocryolls.

A typical pedon of Adel loam is in an area of Adel-Quazar complex, 5 to 30 percent slopes, located in the northwest quarter of the southeast quarter of sec. 27, T. 42N, R. 13W.

A1—0 to 14 inches; dark grayish brown (10YR 4/2) loam, very dark brown (10YR 2/2) moist; moderate fine granular structure; soft, very friable, non-sticky and non-plastic; 5 percent gravel; many fine roots; neutral (pH 6.8); clear smooth boundary.

A2—14 to 24 inches; dark grayish brown (10YR 4/2) loam, very dark grayish brown (10YR 3/2) moist; moderate medium granular structure; soft, very friable, slightly sticky and slightly plastic; 5 percent gravel; few fine roots; neutral (pH 6.8); 5 percent gravel; clear smooth boundary.

A3—24 to 36 inches; dark grayish brown (10YR 4/2) loam, very dark grayish brown (10YR 3/2) moist; weak medium subangular blocky structure parting to moderate medium granular; soft, very friable, slightly sticky and slightly plastic; 13 percent gravel; neutral (pH 6.8); clear smooth boundary.

C—36 to 60 inches; brown (10YR 5/3) clay loam, brown (10YR 4/3) moist; massive; hard, firm, sticky and plastic; 13 percent gravel; neutral (pH 7.0).

The mollic epipedon ranges from 16 to 60 inches thick. The particle-size control section has 18 to 30 percent clay and 5 to 15 percent rock fragments. The reaction is slightly acid or neutral.

A horizon: The hue is 10YR or 2.5Y; the value is 3 or 4 dry, 2 or 3 moist; and the chroma is 1 or 2.

C horizon: The hue is 10YR or 2.5Y; the value is 5 or 6 dry and 3 or 4 moist. The texture is loam or clay loam with gravelly modifiers in some pedons.

Anvik Series

The Anvik series consists of very deep, well drained soils on mountain slopes. These soils formed in slope alluvium derived mostly from sandstone and shale. The slopes range from 10 to 60 percent. The elevation ranges from 8,500 to 10,000 feet. The average annual precipitation ranges from 25 to 32 inches. The average annual air temperature ranges from 35 to 42 degrees F.

These soils are fine-loamy, mixed, superactive Alfic Argicryolls.

A typical pedon of Anvik loam is in an area of Anvik-Tuckerville complex, 10 to 45 percent slopes, located about 100 feet north and 400 feet east of the southwest corner of sec. 20, T. 37 N., R. 7 W.:

Oi—0 to 1 inch; partially decomposed organic material.

A1—1 inch to 7 inches; dark grayish brown (10YR 4/2) loam, very dark brown (10YR 2/2) moist; weak medium granular structure parting to weak, fine granular

structure; soft, very friable, nonsticky and nonplastic; slightly acid (pH 6.1); clear wavy boundary.

A2—7 to 11 inches; dark grayish brown (10YR 4/2) loam, very dark grayish brown (10YR 3/2) moist; moderate medium granular structure parting to weak fine granular structure; soft, very friable, slightly sticky and slightly plastic; moderately acid (pH 5.8); clear wavy boundary.

E—11 to 22 inches; light yellowish brown (10YR 6/4) loam, yellowish brown (10YR 5/4) moist; moderate medium granular structure parting to weak fine granular structure; soft, very friable, slightly sticky and slightly plastic; moderately acid (pH 5.8); clear wavy boundary.

Bt1—22 to 31 inches; brown (10YR 5/3) clay loam, grayish brown (10YR 5/2) moist; weak medium prismatic structure parting to moderate medium subangular blocky; hard, friable, sticky and plastic; few distinct clay films on faces of peds; slightly acid (pH 6.1); abrupt wavy boundary.

Bt2—31 to 45 inches; yellowish brown (10YR 5/4) clay loam, brown (10YR 5/3) moist; weak medium prismatic structure parting to moderate medium subangular blocky; hard, friable, sticky and plastic; few distinct clay films on faces of peds; slightly acid (pH 6.2); abrupt wavy boundary.

C—45 to 61 inches; yellowish brown (10YR 5/4) sandy clay loam, brown (10YR 5/3) moist; weak medium subangular blocky structure; hard, friable, slightly sticky and slightly plastic, neutral (pH 7.0).

The mollic epipedon ranges from 10 to 16 inches thick. The particle-size control section has 20 to 35 percent clay and 0 to 20 percent rock fragments.

A horizon: The hue is 7.5YR through 2.5Y; the value is 4 or 5 dry, 2 or 3 moist; and the chroma is 2 or 3. The reaction ranges from moderately acid through neutral.

E horizon: The hue is 7.5YR through 2.5Y; the value is 6 or 7 dry, 4 through 6 moist; and the chroma is 2 through 4. The reaction ranges from moderately acid through neutral.

Bt horizon: The hue is 7.5YR through 2.5Y; the value is 5 or 6 dry, 4 or 5 moist; and the chroma is 2 through 4. The texture of the fine-earth fraction typically is clay loam or sandy clay loam. Some pedons have rock fragment modifiers. The reaction is slightly acid or neutral.

C horizon: The hue is 7.5YR through 2.5Y.

Apmay Series

The Apmay series consists of very deep, somewhat poorly drained soils on flood plains and valley floors. These soils formed in alluvium derived from mixed sources. The slopes range from 0 to 5 percent. The elevation ranges from 7,100 to 8,500 feet. Average annual precipitation ranges from 15 to 20 inches, and average annual air temperature ranges from 41 to 45 degrees F.

These soils are coarse-loamy, mixed, superactive, frigid Aquic Cumulic Haplustolls.

A typical pedon of Apmay loam is in an area of Dalmation-Apmay-Schrader complex, 0 to 5 percent slopes, located about 100 feet east and 250 feet south of the northwest corner of sec. 1, T. 38 N., R. 14 W.:

A—0 to 4 inches; brown (10YR 4/3) loam, very dark grayish brown (10YR 3/2) moist; moderate fine subangular blocky structure parting to weak very fine granular; soft, very friable, slightly sticky and plastic; many very fine, fine and common medium roots; many very fine continuous pores; moderately acid (pH 6.0); clear wavy boundary.

AB—4 to 10 inches; brown (10YR 4/3) clay loam, very dark grayish brown (10YR 3/2) moist; moderate fine subangular blocky structure; slightly hard, friable sticky and

plastic; many very fine and fine roots; many very fine continuous pores; neutral (pH 6.6); clear wavy boundary.

Bw1—10 to 18 inches; brown (10YR 4/3) clay loam, very dark grayish brown (10YR 3/2) moist; moderate medium subangular blocky structure; hard, friable, sticky and plastic; many very fine roots; many very fine continuous pores; common medium faint reddish yellow (5YR 6/6) concentrations of iron masses; neutral (pH 6.6); clear wavy boundary.

Bw2—18 to 22 inches; dark yellowish brown (10YR 4/4) sandy loam, very dark grayish brown (10YR 3/2) moist; weak fine subangular blocky structure parting to weak fine granular; hard, friable, sticky and plastic; common very fine roots; common very fine continuous pores; 5 percent gravel; common medium faint reddish yellow (5YR 6/6) concentrations of iron masses; neutral (pH 6.6); abrupt smooth boundary.

2C1—22 to 28 inches; brown (7.5YR 5/3) extremely gravelly loamy sand, dark brown (7.5YR 3/2) moist; massive; soft, friable, nonsticky and nonplastic; few fine roots; 60 percent gravel; neutral (pH 6.6); gradual wavy boundary.

2C2—28 to 48 inches; brown (10YR 5/3) extremely gravelly sandy loam, dark brown (10YR 3/3) moist; massive; soft, friable, nonsticky and nonplastic; 60 percent gravel, 5 percent cobbles, and 5 percent stones; neutral (pH 7.0); gradual wavy boundary.

2C3—48 to 60 inches; brown (10YR 5/3) extremely gravelly loamy sand, dark brown (10YR 3/3) moist; massive; slightly hard, friable, nonsticky and nonplastic; 60 percent gravel, 5 percent cobbles, and 5 percent stones; neutral (pH 7.0).

The mollic epipedon ranges from 16 to 30 inches thick. The depth to skeletal material ranges from 20 to 40 inches. The depth to seasonal high water table is 12 to 36 inches in May and June. The depth to redoximorphic concentrations is 10 to 18 inches.

A horizon: The hue is 10YR or 2.5Y; the value is 3 to 5 dry, 2 or 3 moist; and the chroma is 2 or 3. The reaction is moderately acid through neutral.

Bw horizon: The hue is 10YR or 2.5Y; the value is 4 or 5 dry, 3 or 4 moist; and the chroma is 2 through 4. The texture is clay loam, sandy clay loam, or sandy loam. The particle-size control section has 18 to 35 percent clay. The reaction is neutral.

2C horizons: The hue is 7.5YR or 10YR; the value is 4 through 6 dry, 3 through 5 moist; and the chroma is 2 through 4. The texture is extremely gravelly loamy sand and extremely gravelly sandy loam.

The particle-size control section has granitic rock fragments that consist of 50 to 70 percent gravel and 0 to 15 percent cobbles and stones. The reaction is neutral.

This soil is taxadjunct to the series because the lower part of the particle-size control section (the 2C2 horizon) is loamy and not sandy.

Arabrab Series

The Arabrab series consists of shallow, well drained soils on mesas, hills, and ridges. These soils formed in residuum and reworked eolian material derived dominantly from sandstone. The slopes range from 0 to 15 percent. The elevation ranges from 6,600 to 7,200 feet. Average annual precipitation ranges from 13 to 15 inches, and average annual air temperature ranges from 45 to 49 degrees F.

These soils are loamy, mixed, superactive, mesic Lithic Haplustalfs.

A typical pedon of Arabrab loam, 0 to 15 percent slopes, is located about 400 feet west and 430 feet south of the northeast corner of sec. 3, T. 41 N., R. 16 W.:

A—0 to 3 inches; brown (7.5YR 4/4) loam, dark brown (7.5YR 3/2) moist; moderate medium granular structure; hard, very friable, sticky and slightly plastic; few fine roots; 5 percent gravel; slightly alkaline (pH 7.6); clear smooth boundary.

Bt—3 to 7 inches; brown (7.5YR 4/4) clay loam, dark reddish brown (5YR 3/4) moist; moderate medium subangular blocky structure; slightly hard, friable, sticky and plastic; few distinct clay films on faces of peds; few fine roots; strongly effervescent; 5 percent gravel; slightly alkaline (pH 7.6); gradual smooth boundary.

Bk—7 to 15 inches; pinkish gray (7.5YR 7/2) cobbly loam, brown (7.5YR 4/2) moist; weak fine subangular blocky structure; hard, friable, slightly sticky and plastic; violently effervescent; 15 percent gravel and 10 percent cobbles; slightly alkaline (pH 7.8); abrupt smooth boundary.

R—15 inches; hard sandstone.

The depth to bedrock ranges from 10 to 20 inches. The particle-size control section has 18 to 35 percent clay and 5 to 25 percent rock fragments. The reaction is slightly alkaline.

A horizon: The hue is 5YR through 10YR; the value is 4 or 5 dry, 3 to 5 moist; and the chroma is 2 or 3. The texture is loam or fine sandy loam.

Bt horizon: The hue is 5YR or 7.5YR; the value is 4 or 5 dry, 3 to 5 moist; and the chroma is 3 to 6. The texture is loam, clay loam, or sandy clay loam with rock fragment modifiers in some pedons.

Bk horizon: The hue is 5YR or 7.5YR; the value is 5 to 7 dry, 4 or 5 moist; and the chroma is 2 to 4. The texture of the fine-earth fraction is loam or clay loam with rock fragment modifiers.

Archuleta Series

The Archuleta series consists of shallow, well drained soils on mountain slopes, hills, ridges, and canyon side slopes. These soils formed in residuum and slope alluvium derived mostly from shale and sandstone. The slopes range from 12 to 80 percent. The elevation ranges from 7,100 to 8,500 feet. Mean annual precipitation ranges from 15 to 22 inches. Mean annual air temperature ranges from 40 to 45 degrees F.

These soils are loamy, mixed, superactive, frigid, shallow Typic Haplustepts.

A typical pedon of Archuleta stony clay loam is in an area of Archuleta-Sheek complex, 12 to 65 percent slopes, located along the old railroad grade in the southwest quarter of the northwest quarter of sec. 28, T. 36 N., R. 12 W.:

A—0 to 3 inches; light brownish gray (10YR 6/2) stony clay loam, brown (7.5YR 5/2) moist; moderate medium granular structure, slightly hard, friable, sticky and plastic; 15 percent gravel, 5 percent cobbles, and 10 percent stones; neutral (pH 7.0); clear smooth boundary.

Bw—3 to 16 inches; brown (7.5YR 5/3) clay loam, brown (7.5YR 5/3) moist; weak medium subangular blocky structure; hard, firm, sticky and plastic; 5 percent gravel, 2 percent cobbles, and 3 percent stones; neutral (pH 7.0); clear smooth boundary.

Cr—16 to 26 inches; shale and sandstone weathered in the upper few inches.

The depth to paralithic contact ranges from 10 to 20 inches. The particle-size control section has 18 to 35 percent clay and 0 to 30 percent sandstone rock fragments. The texture typically is loam, clay loam, sandy clay loam, or sandy loam. The reaction ranges from slightly acid to slightly alkaline.

A horizon: The hue is 7.5YR or 10YR; the value is 5 through 7 dry, 4 through 6 moist; and the chroma is 2 through 4.

Bw horizon: The hue is 7.5YR or 10YR; the value is 5 or 6 dry, 4 through 6 moist; and the chroma is 2 through 4.

Argiustolls

Argiustolls consist of moderately deep to very deep, well drained soils on canyon side slopes and mountain slopes. These soils formed in slope alluvium and colluvium derived mostly from sandstone and shale. The slopes range from 30 to 80 percent. The elevation ranges from 6,900 to 8,500 feet. Average annual precipitation ranges from 15 to 22 inches, and average annual air temperature ranges from 40 to 46 degrees F.

These soils are Argiustolls.

A reference pedon of Argiustolls is in an area of Argiustolls-Haplustalfs-Rock outcrop complex, 30 to 80 percent slopes, located in the northwest quarter of the southeast quarter of sec. 6, T.38 N., R.15 W.:

Oi—0 to 1 inch; slightly decomposed needles and leaves.

A—1 inch to 4 inches; very dark grayish brown (10YR 3/2) extremely stony loam, black (10YR 2/1) moist; strong fine subangular blocky structure; slightly hard, friable, slightly sticky and plastic; many very fine to medium roots; 15 percent gravel, 25 percent cobbles, and 30 percent stones; neutral (pH 7.0); clear smooth boundary.

Bt1—4 to 7 inches; grayish brown (10YR 5/2) extremely stony clay loam, very dark brown (10YR 2/2) moist; strong medium subangular blocky structure; very hard, friable, sticky and plastic; many very fine to medium roots; many prominent clay films on the faces of peds; 10 percent gravel, 20 percent cobbles, and 40 percent stones; neutral (pH 7.0); clear wavy boundary.

Bt2—7 to 13 inches; brown (10YR 4/3) extremely stony clay loam, dark brown (10YR 3/3) moist; strong coarse subangular blocky structure; very hard, friable, sticky and plastic; common very fine to medium roots; many prominent clay films on the faces of peds; 10 percent gravel, 25 percent cobbles, and 30 percent stones; neutral (pH 7.0); clear wavy boundary.

Bt3—13 to 20 inches; yellowish brown (10YR 5/4) very stony clay loam, dark brown (10YR 3/3) moist; strong coarse subangular blocky structure; extremely hard, firm, sticky and plastic; few very fine to medium roots; many prominent clay films on the faces of peds; 10 percent gravel, 15 percent cobbles, and 15 percent stones; neutral (pH 7.0); gradual wavy boundary.

Bt4—20 to 37 inches; yellowish brown (10YR 5/4) cobbly clay loam, brown (10YR 4/3) moist; moderate medium subangular blocky structure; extremely hard, firm, sticky and plastic; few very fine to medium roots; common prominent clay films on the faces of peds; 10 percent gravel, 15 percent cobbles, and 5 percent stones; neutral (pH 7.0); clear smooth boundary.

C1—37 to 50 inches; light gray (10YR 7/2) cobbly clay, brown (10YR 5/3) moist; massive; extremely hard, very firm, sticky and plastic; 10 percent gravel, 15 percent cobbles, and 5 percent stones; neutral (pH 7.0); clear smooth boundary.

C2—50 to 61 inches; light brownish gray (10YR 6/2) clay, grayish brown (10YR 5/2) moist; massive; extremely hard, very firm, sticky and plastic; neutral (pH 7.0).

The depth to bedrock ranges from 20 to 60 inches or more. The mollic epipedon ranges from 10 to 24 inches thick. The particle-size control section has 35 to 80 percent rock fragments. The reaction ranges from slightly acid to slightly alkaline.

A horizon: The hue is 5YR through 10YR; the value is 3 through 5 dry, 2 or 3 moist; and the chroma is 1 through 3. The texture usually is loam with varying rock fragment modifiers.

Bt horizon: The hue is 5YR through 2.5Y; the value is 4 through 6 dry, 2 through 4 moist; and the chroma is 2 through 6. The texture usually is clay loam, loam, or clay with varying rock fragment modifiers.

C horizon (when present): The hue is 5YR through 2.5Y.

Baird Hollow Series

The Baird Hollow series consists of very deep, well drained soils on mountain slopes. These soils formed in slope alluvium derived from rhyolite and sandstone. The slopes range from 15 to 30 percent. The elevation ranges from 10,000 to 11,000 feet. Average annual precipitation ranges from 25 to 35 inches. The average annual air temperature ranges from 35 to 38 degrees F.

These soils are clayey-skeletal, smectitic Pachic Palecryolls.

A typical pedon of Baird Hollow loam is in an area of Baird Hollow-Nordic-Ryman complex, 5 to 40 percent slopes, located in the northeast quarter of the northwest quarter of sec. 22, T. 42 N., R. 13 W.:

Oi—0 to 2 inches; layer of aspen leaves and other partly decayed material.

A1—2 to 9 inches; dark grayish brown (10YR 4/2) loam, very dark brown (10YR 2/2) moist; moderate medium granular structure; soft, friable, non-sticky and non-plastic; many fine roots; moderately acid (pH 6.0); clear smooth boundary.

A2—9 to 20 inches; brown (7.5YR 5/2) loam, dark brown (7.5YR 3/2) moist; moderate fine granular structure; soft, very friable, non-sticky and non-plastic; 5 percent gravel and 2 percent cobbles; many fine roots, slightly acid (pH 6.2); gradual wavy boundary.

E/B—20 to 29 inches; (70 percent E) light brownish gray (10YR 6/2) very cobbly sandy clay loam, dark grayish brown (10YR 4/2) moist, and (30 percent B) brown (7.5YR 5/4) very cobbly clay loam, brown (7.5YR 4/4) moist; moderate medium subangular blocky structure parting to moderate medium granular; hard, friable, sticky and plastic; 20 percent gravel and 20 percent cobbles; few fine roots; slightly acid (pH 6.4); gradual wavy boundary.

Bt—29 to 62 inches; brown (7.5YR 5/4) very cobbly clay loam, brown (7.5YR 4/4) moist; moderate medium subangular blocky structure; hard, firm, very sticky and plastic; few distinct clay films on faces of peds; 25 percent gravel, 30 percent cobbles, and 2 percent stones; slightly acid (pH 6.4).

The mollic epipedon ranges from 16 to 20 inches thick. The depth to the top of the Bt horizon is 24 to 34 inches from the mineral soil surface. The particle-size control section has 35 to 45 percent clay and 35 to 60 percent rhyolite and sandstone rock fragments.

A horizon: The hue is 7.5YR or 10YR; the value is 4 or 5 dry, 2 or 3 moist; and the chroma is 1 or 2. The texture is loam. The reaction is moderately acid or slightly acid.

E/B horizon: The hue is 7.5YR or 10YR

E part: The value is 5 or 6 dry, 3 or 4 moist and chroma of 2 or 3. The texture of the fine-earth fraction is loam or sandy clay loam.

B part: The value is 5 or 6 dry, 4 or 5 moist; and the chroma is 3 or 4. The texture of the fine-earth fraction is clay loam or sandy clay loam. The particle-size control section has 15 to 60 percent rock fragments. The reaction is moderately acid or slightly acid.

Bt horizon: The hue is 7.5YR or 10YR; the value is 4 or 5 dry, 3 or 4 moist and chroma of 3 or 4. The texture of the fine-earth fraction is clay loam or clay. The reaction is strongly acid through slightly acid.

Behanco Series

The Behanco series consists of deep, well drained soils on mesas. These soils formed in residuum and slope alluvium derived dominantly from sandstone. The slopes range from 0 to 15 percent. The elevation ranges from 8,500 to 10,000 feet. Average annual precipitation ranges from 25 to 30 inches, and average annual air temperature ranges from 34 to 40 degrees F.

These soils are loamy-skeletal, mixed, superactive Pachic Haplocryolls.

A typical pedon of Behanco loam is in an area of Behanco-Powderhorn family complex, 0 to 15 percent slopes, located about 1,050 feet north and 800 feet east of the southwest corner of sec. 36, T. 39 N., R. 13 W.:

- A1—0 to 2 inches; grayish brown (10YR 5/2) loam, very dark grayish brown (10YR 3/2) moist; weak fine granular structure; soft, very friable, nonsticky and nonplastic; many very fine and few fine roots; many very fine pores; 5 percent gravel; moderately acid (pH 6.0); clear smooth boundary.
- A2—2 to 17 inches; brown (10YR 5/3) very flaggy loam, dark brown (10YR 3/3) moist; moderate medium and coarse subangular blocky structure; slightly hard, friable, nonsticky and nonplastic; common very fine, few medium and coarse roots; many very fine and few fine pores; 20 percent channers, and 20 percent flags; slightly acid (pH 6.2); clear irregular boundary.
- E—17 to 25 inches; very pale brown (10YR 7/3) very channery loam, brown (10YR 4/3) moist; weak medium subangular blocky structure; slightly hard, friable, nonsticky and nonplastic; common very fine, few medium and coarse roots; many very fine pores; 45 percent channers and 10 percent flags; strongly acid (pH 5.1); gradual irregular boundary.
- Bt—25 to 33 inches; very pale brown (10YR 7/4) very channery loam, yellowish brown (10YR 5/4) moist; moderate medium subangular blocky structure; slightly hard, friable, nonsticky and nonplastic; few very fine roots; common very fine pores; common faint clay films bridging sand grains; 45 percent channers, and 10 percent flags; strongly acid (pH 5.4); clear wavy boundary.
- 2C1—33 to 45 inches; yellow (10YR 7/6) very channery sand, brownish yellow (10YR 6/6) moist; massive to single grained; loose, loose, nonsticky and nonplastic; few very fine roots; few very fine pores, 30 percent channers, 10 percent flags; strongly acid (pH 5.3); clear wavy boundary.
- 2C2—45 to 47 inches; yellow (10YR 7/8) clay, brownish yellow (10YR 6/8) moist; massive, extremely hard, extremely firm, sticky and plastic; few very fine roots; 5 percent channers; strongly acid (pH 5.4); clear wavy boundary.
- 2Cr—47 to 59 inches; yellow (10YR 7/6) weathered sandstone, brownish yellow (10YR 6/6) moist, massive; extremely hard, extremely firm, nonsticky and nonplastic; strongly acid (pH 5.1); abrupt wavy boundary.
- 2R—59 inches; hard Dakota sandstone.

The mollic epipedon ranges from 16 to 30 inches thick. The depth to paralithic contact ranges from 40 to 60 inches. The particle-size control section has 18 to 27 percent clay and 35 to 60 percent rock fragments.

A horizon: The hue is 10YR; the value is 3 through 5 dry, 2 or 3 moist; and the chroma is 2 or 3. The reaction is moderately acid or slightly acid.

E horizon: The hue is 10YR; the value is 6 or 7 dry, 4 or 5 moist; and the chroma is 2 through 4. The reaction is strongly acid.

Bt horizon: The hue is 10YR; the value is 4 through 7 dry, 4 or 5 moist; and the chroma is 3 or 4. The texture of the fine-earth fraction typically is loam with very channery or very flaggy rock fragment modifiers. The reaction is strongly acid or moderately acid.

2C1 horizon: The hue is 10YR; the value is 5 to 7 dry, 5 or 6 moist; and the chroma is 4 through 8. The reaction is strongly acid or moderately acid.

Beje Series

The Beje series consists of shallow, well drained soils on mesas, hills, and ridges. These soils formed in slope alluvium and residuum derived dominantly from sandstone. The slopes range from 1 to 30 percent. The elevation ranges from 7,100

to 8,500 feet. Average annual precipitation ranges from 15 to 22 inches, and average annual air temperature ranges from 41 to 45 degrees F.

These soils are loamy, mixed, superactive, frigid Lithic Argiustolls.

A typical pedon of Beje loam, very stony, is in an area of Ormiston-Beje complex, 5 to 30 percent slopes, located about 550 feet west and 450 feet south of the northeast corner of sec. 20, T. 38 N., R. 15 W.:

- A—0 to 2 inches; brown (10YR 4/3) loam, dark brown (10YR 3/3) moist; weak fine subangular blocky structure parting to weak fine granular; soft, very friable, nonsticky and slightly plastic; 5 percent gravel, 2 percent cobbles, and 2 percent stones; neutral (pH 7.0); clear wavy boundary.
- AB—2 to 6 inches; brown (10YR 4/3) loam, dark brown (10YR 3/3) moist; weak fine subangular blocky structure; soft, very friable, nonsticky and slightly plastic; 5 percent gravel; neutral (pH 7.0); clear wavy boundary.
- Bt—6 to 14 inches; brown (7.5YR 4/4) clay loam, dark brown (10YR 4/3) moist; moderate medium subangular blocky structure; hard, friable, sticky and plastic; few distinct clay films on faces of pedis; 5 percent gravel; neutral (pH 7.0); clear wavy boundary.
- R—14 inches; hard sandstone, fractured in the upper part.

The depth to bedrock ranges from 10 to 20 inches. The mollic epipedon ranges from 7 to 16 inches thick. The particle-size control section has 0 to 15 percent sandstone rock fragments.

A horizon: The hue is 7.5YR or 10YR; the value is 3 or 4 dry, 2 or 3 moist; and the chroma is 2 or 3. The reaction is neutral.

Bt horizon: The hue is 7.5YR or 10YR; the value is 4 or 5 dry, 3 or 4 moist and chroma of 3 or 4. The texture is clay loam, loam, or sandy clay loam. The particle-size control section has 18 to 35 percent clay. The reaction is neutral.

Blacksnag Series

The Blacksnag series consists of very deep, well drained soils on mesas, structural benches, and mountain slopes. These soils formed in slope alluvium and colluvium derived from diorite. The slopes range from 2 to 30 percent. The elevation ranges from 10,000 to 11,500 feet. Average annual precipitation ranges from 30 to 45 inches, and average annual air temperature ranges from 32 to 38 degrees F.

These soils are loamy-skeletal, mixed, superactive Typic Dystrocrypts.

A typical pedon of Blacksnag very cobbly loam is in an area of Blacksnag-Peeler complex, 2 to 15 percent slopes, located about 2,650 feet south and 2,050 feet west of the northeast corner of sec. 3, T. 37 N., R. 12 W.:

- A1—0 to 3 inches; brown (7.5YR 4/2) very cobbly loam, dark brown (7.5YR 3/2) moist; weak medium subangular blocky structure parting to moderate medium granular; soft, very friable, slightly sticky and slightly plastic; many very fine and fine, common medium and coarse roots; few very fine and fine pores; 25 percent gravel, 20 percent cobbles, and 10 percent stones; moderately acid (pH 6.0); clear wavy boundary.
- A2—3 to 8 inches; brown (7.5YR 5/2) very cobbly loam, dark brown (7.5YR 3/2) moist; moderate medium subangular blocky structure parting to moderate medium granular; soft, very friable, slightly sticky and slightly plastic; many very fine, common fine, few medium and coarse roots; few very fine pores; 25 percent gravel, 20 percent cobbles, and 10 percent stones; slightly acid (pH 6.2); clear wavy boundary.
- Bw1—8 to 16 inches; brown (7.5YR 4/4) extremely cobbly loam, dark brown (7.5YR 3/4) moist; moderate medium granular structure; soft, very friable, slightly sticky and slightly plastic; many very fine, common fine, few medium and coarse roots;

few medium pores; 30 percent gravel, 25 percent cobbles, and 15 percent stones; moderately acid (pH 5.6); gradual wavy boundary.

Bw2—16 to 28 inches; strong brown (7.5YR 5/6) extremely cobbly loam, dark brown (7.5YR 3/4) moist; moderate medium subangular blocky structure; slightly hard, friable, slightly sticky and slightly plastic; common very fine, few fine, medium, and coarse roots; few medium pores; 30 percent gravel, 25 percent cobbles, and 15 percent stones; moderately acid (pH 6.0); gradual wavy boundary.

Bw3—28 to 36 inches; strong brown (7.5YR 5/6) very cobbly sandy loam, dark brown (7.5YR 3/4) moist; moderate medium and coarse angular blocky structure; slightly hard, friable, slightly sticky and nonplastic; few very fine, fine, and medium roots; few medium pores; 25 percent gravel, 20 percent cobbles, and 10 percent stones; slightly acid (pH 6.2); gradual wavy boundary.

Bw4—36 to 49 inches; strong brown (7.5YR 5/6) very cobbly sandy clay loam, brown (7.5YR 4/4) moist; moderate medium and coarse angular blocky structure; slightly hard, friable, slightly sticky and slightly plastic; few very fine, fine and medium roots; few medium pores; 20 percent gravel, 20 percent cobbles, and 5 percent stones; slightly acid (pH 6.2); gradual wavy boundary.

Bw5—49 to 60 inches; light brown (7.5YR 6/4) very cobbly sandy clay loam, brown (7.5YR 4/4) moist; moderate medium and coarse angular blocky structure; slightly hard, friable, slightly sticky and nonplastic; few very fine and fine roots; 10 percent gravel, 25 percent cobbles, and 5 percent stones; slightly acid (pH 6.2).

The particle-size control section has 18 to 35 percent clay and 35 to 85 percent rock fragments. Base saturation ranges from 35 to 50 percent in the A and Bw horizons above a depth of 30 inches.

A horizon: The hue is 7.5YR or 10YR; the value is 4 through 6 dry, 3 through 5 moist; and the chroma is 2 or 3 dry, 2 through 4 moist. The reaction is moderately acid or slightly acid.

Bw horizon: The hue is 7.5YR or 10YR; the value is 4 through 7 dry, 3 through 5 moist; and the chroma is 3 through 6. The texture of the fine-earth fraction is loam, sandy loam, or sandy clay loam. The particle-size control section has 35 to 85 percent rock fragments, consisting of diorite gravel, cobbles, and stones. The reaction is moderately acid or slightly acid.

Bodot Series

The Bodot series consists of moderately deep, well drained soils on hills, and ridges. These soils formed in residuum derived dominantly from shale. The slopes range from 15 to 25 percent. The elevation ranges from 6,500 to 7,500 feet. The average annual precipitation ranges from 13 to 15 inches, the average annual air temperature ranges from 46 to 50 degrees F.

These soils are fine, smectitic, mesic Torreritic Haplustepts.

A typical pedon of Bodot silty clay loam is in an area of Zigzag-Bodot-Rock outcrop complex, 15 to 30 percent slopes, about 300 feet south and 1,700 feet west of the northeast corner of sec. 4, T. 41 N., R. 15 W.

A—0 to 3 inches; light brownish gray (10YR 6/2) silty clay loam, dark grayish brown (10YR 4/2) moist; moderate fine granular structure; slightly hard, very friable, slightly sticky and plastic; strongly effervescent; slightly alkaline (pH 7.6); clear smooth boundary.

Bw—3 to 18 inches; brown (10YR 5/3) silty clay loam, brown (10YR 4/3) moist; weak coarse subangular blocky structure parting to moderate fine angular blocky; hard, friable, sticky and plastic; strongly effervescent; moderately alkaline (pH 8.0); clear smooth boundary.

C—18 to 38 inches; pale brown (10YR 6/3) silty clay loam, brown (10YR 4/3) moist; massive; hard, friable, slightly sticky and plastic; calcium carbonate is segregated in many irregularly shaped medium sized threads and soft masses; 10 percent shale fragments; strongly effervescent; moderately alkaline (pH 8.2); clear wavy boundary.

Cr—38 to 48 inches; slightly weathered gray platy shale.

Paralithic contact is at a depth of 20 to 40 inches. The particle-size control section has 35 to 50 percent clay and 0 to 15 percent rock fragments. The texture of the particle-size control section is silty clay loam, silty clay, clay loam, or clay. The soil has cracks $\frac{1}{2}$ inch wide in the AC horizon and in the upper parts of the C horizons.

Slickensides are present in most pedons.

A horizon: The hue is 7.5YR through 2.5Y; the value is 5 or 6 dry, 4 or 5 moist; and the chroma is 2 or 3. The reaction is slightly alkaline or moderately alkaline.

Bw horizon (when present): The hue is 10YR or 2.5Y; the value is 5 or 6 dry, 4 or 5 moist; and the chroma is 2 or 3. The reaction is slightly alkaline or moderately alkaline.

C horizon: The hue is 10YR or 2.5Y; the value is 5 or 6 dry, 4 or 5 moist; and the chroma is 3 or 4. The reaction is moderately alkaline or strongly alkaline.

This soil is taxadjunct to the series because it has a more strongly expressed B (cambic) horizon.

Bradfield Series

The Bradfield series consists of very deep, well drained soils on mesas and alluvial fans. These soils formed in slope alluvium and alluvium derived mostly from shale. The slopes range from 0 to 5 percent. The elevation ranges from 7,600 to 8,500 feet. The mean annual precipitation ranges from 18 to 25 inches and the mean annual air temperature ranges from 40 to 44 degrees F.

These soils are fine, smectitic, frigid Udic Haplusterts.

A typical pedon of Bradfield clay loam, 0 to 5 percent slopes, is located about 30 miles north of Dolores in Dolores County; about 1,600 feet west and 1,200 feet south of the northeast corner of sec. 4, T. 40 N., R. 16 W.:

A—0 to 7 inches; grayish brown (10YR 5/2) clay loam, very dark grayish brown (10YR 3/2) moist; moderate medium granular structure; hard, firm, sticky and plastic; many fine and medium roots; neutral (pH 7.2); clear smooth boundary.

Bss1—7 to 15 inches; brown (10YR 4/3) clay loam, dark brown (10YR 3/3) moist; moderate coarse prismatic structure parting to moderate medium angular and subangular blocky; extremely hard, firm, sticky and plastic; pressure faces and slickensides are present; cracks are $\frac{1}{2}$ inch wide or more; few fine roots; neutral (pH 7.0); gradual smooth boundary.

Bss2—15 to 28 inches; dark grayish brown (10YR 4/2) clay, very dark grayish brown (10YR 3/2) moist; moderate coarse prismatic structure parting to moderate medium angular and subangular blocky; extremely hard, very firm, very sticky and very plastic; pressure faces and slickensides are present; wedge shaped aggregates are present; cracks are $\frac{1}{2}$ inch wide or more; neutral (pH 7.2); clear smooth boundary.

Bss3—28 to 36 inches; brown (10YR 5/3) and yellowish brown (10YR 5/4) clay, dark brown (10YR 3/3) and yellowish brown (10YR 5/4) moist; massive; extremely hard, very firm, very sticky and very plastic; many prominent pressure faces and slickensides; slightly alkaline (pH 7.4); gradual wavy boundary.

BCy—36 to 60 inches; light yellowish brown (10YR 6/4) clay, yellowish brown (10YR 5/4) moist; massive; very hard, very firm, very sticky and very plastic; few gypsum crystals in the lower part of this horizon; neutral (pH 7.2).

The mollic epipedon ranges from 16 to 40 inches thick and usually includes part or all of the Bss horizon. The soil typically is carbonate free but a few pedons have disseminated carbonates in the lower part of the C horizon. The depth to calcareous material ranges from 35 to 60 inches or more. The particle-size control section has 35 to 60 percent clay and 0 to 10 percent shale rock fragments.

The soil has cracks extending to the surface when dry. Cracks are $\frac{1}{2}$ to 1 inch wide, 20 inches or more deep and 12 inches or more long. Pressure faces and slickensides are evident in the series control section. Wedge-shaped aggregates are present in most pedons.

A horizon: The hue is 2.5Y or 10YR; the value is 4 or 5 dry, 2 or 3 moist; and the chroma is 1 through 3. The reaction is neutral or slightly alkaline.

Bss horizons: The hue is 2.5Y or 10YR; the value is 4 or 5 dry, 2 through 4 moist; and the chroma is 1 through 4. The reaction is neutral or slightly alkaline.

BCy horizon: The hue is 2.5Y or 10YR. The reaction ranges from neutral through moderately alkaline.

Brumley Series

The Brumley series consists of very deep, well drained soils on terraces and mesas. These soils formed in slope alluvium derived dominantly from sandstone. The slopes range from 0 to 15 percent. The elevation ranges from 6,800 to 7,200 feet. Average annual precipitation ranges from 12 to 14 inches, and average annual air temperature ranges from 47 to 50 degrees F.

These soils are fine-loamy, mixed, superactive, mesic Calcic Haplustalfs.

A typical pedon of Brumley loam, 0 to 15 percent slopes, is located about 200 feet east and 1,700 feet south of the northwest corner of sec. 2, T. 41 N., R. 16 W.:

- A—0 to 2 inches; brown (10YR 5/3) loam, dark brown (7.5YR 3/2) moist; moderate fine granular structure; slightly hard, very friable, slightly sticky and slightly plastic; slightly alkaline (pH 7.4); clear smooth boundary.
- Bt—2 to 17 inches; brown (7.5YR 4/4) clay loam, dark brown (7.5YR 3/4) moist; moderate medium subangular blocky parting to strong fine subangular blocky structure; hard, friable, sticky and plastic; common distinct clay films on faces of pedis; slightly alkaline (pH 7.4); clear smooth boundary.
- Btk—17 to 25 inches; light brown (7.5YR 6/4) clay loam, brown (7.5YR 5/4) moist; moderate fine subangular blocky structure; very hard, friable, sticky and plastic; common distinct clay films on faces of pedis; disseminated calcium carbonate; slightly effervescent; moderately alkaline (pH 8.0); gradual smooth boundary.
- Bk1—25 to 40 inches; light brown; (7.5YR 6/4) clay loam, brown (7.5YR 5/4) moist; weak medium subangular blocky structure; hard, friable, sticky and plastic; disseminated calcium carbonate and in small masses; violently effervescent; 28 percent calcium carbonate; moderately alkaline (pH 8.0); clear smooth boundary.
- Bk2—40 to 60 inches; pink (7.5YR 7/4) loam, brown (7.5YR 5/4) moist; massive; hard, very friable, sticky and slightly plastic; disseminated calcium carbonate and in small masses and seams; violently effervescent; 37 percent calcium carbonate decreasing with depth; moderately alkaline (pH 8.0).

The depth to secondary calcium carbonate ranges from 14 to 27 inches. The depth to the calcic horizon ranges from 17 to 39 inches.

The particle-size control section has 27 to 35 percent clay and 0 to 15 percent rock fragments.

A horizon: The hue is 7.5YR or 10YR; the value is 4 through 6 dry, 3 through 5 moist; and the chroma is 2 or 3. The reaction is neutral or slightly alkaline.

Bt horizon: The hue is 5YR or 7.5YR; the value is 4 through 6 dry, 3 through 5 moist; and the chroma is 3 through 6. The texture is clay loam or sandy clay loam. The particle-size control section has 27 to 35 percent clay. The reaction is slightly alkaline.

Btk horizon: The hue is 5YR or 7.5YR; the value is 5 or 6 dry, 4 or 5 moist; and the chroma is 3 through 6. The texture is clay loam or sandy clay loam. The particle-size control section has 27 to 35 percent clay. The reaction is slightly alkaline or moderately alkaline.

Bk horizon: The hue is 5YR or 7.5YR; the value is 6 through 8 dry, 5 through 7 moist; and the chroma is 3 through 6. The texture is loam, clay loam, or sandy clay loam. the calcium carbonate equivalent of the calcic horizon ranges from 15 to 50 percent and decreases with depth. The reaction is moderately alkaline.

Bucklon Series

The Bucklon series consists of shallow, well drained soils on mountain slopes. These soils formed in residuum derived mostly from shale and sandstone. The slopes range from 10 to 60 percent. The elevation ranges from 8,000 to 11,000 feet. The average annual precipitation ranges from 25 to 45 inches. The average annual air temperature ranges from 32 to 38 degrees F.

These soils are loamy, mixed, superactive, shallow Typic Haplocryolls.

A typical pedon of Bucklon loam is in an area of Hourglass-Bucklon-Wander complex, 30 to 60 percent slopes, located in the northwest quarter of the northeast quarter of sec. 22, T. 37 N., R. 8 W.:

A1—0 to 1 inch; dark grayish brown, (10YR 4/2) loam, very dark grayish brown (10YR 3/2) moist; weak medium granular structure that parts to moderate fine granular; soft, friable, slightly sticky and slightly plastic; 10 percent gravel; neutral (pH 6.6); clear wavy boundary.

A2—1 inch to 12 inches; dark grayish brown, (10YR 4/2) loam, very dark grayish brown (10YR 3/2) moist; moderate medium granular structure; soft, friable, slightly sticky and slightly plastic. 10 percent gravel, 1 percent cobbles; neutral (pH 6.6).

Cr—12 to 22 inches; shale bedrock.

The depth to bedrock ranges from 10 to 20 inches. The mollic epipedon ranges from 6 to 15 inches thick.

The particle-size control section has 18 to 35 percent clay.

A horizon: The hue is 2.5Y or 10YR; the value is 3 through 5 dry, 2 or 3 moist; and the chroma is 1 through 3. The reaction is slightly acid or neutral.

Burnson Series

The Burnson series consists of deep, well drained soils on mesas and hills. These soils formed in slope alluvium over residuum derived dominantly from sandstone and shale but with some influence from eolian materials. The slopes range from 1 to 30 percent. The elevation ranges from 7,400 to 9,000 feet. The average annual precipitation ranges from 17 to 23 inches. The average annual air temperature ranges from 41 to 45 degrees F.

These soils are fine, smectitic, frigid Typic Haplustalfs.

A typical pedon of Burnson loam, 1 to 15 percent slopes, is located about 1,200 feet south and 1,700 feet east of the northwest corner of sec. 19, T. 40 N., R. 16 W.:

Oi—0 to 1 inch; decomposing mat of organic material.

A—1 inch to 4 inches; brown (10YR 4/3) loam, very dark grayish brown (10YR 3/2)

moist; moderate medium granular structure; soft, very friable, non-sticky and non-plastic; neutral (pH 6.8); clear smooth boundary.

AB—4 to 8 inches; brown (7.5YR 4/3) clay loam, dark brown (7.5YR 3/2) moist; moderate medium subangular block structure; hard, friable, sticky and plastic; 5 percent gravel; slightly acid (pH 6.4); gradual wavy boundary.

Bt1—8 to 18 inches; reddish brown (5YR 5/4) sandy clay, reddish brown (5YR 4/4) moist; moderate medium prismatic structure that parts to moderate medium subangular blocky; very hard, very firm, very sticky and plastic; common distinct clay films on faces of peds; organic staining along some ped faces and in some root channels; 10 percent paragravel (soft sandstone gravel); slightly acid (pH 6.1); gradual irregular boundary.

Bt2—18 to 29 inches; mixed colors of reddish brown (5YR 5/4) and reddish gray (5YR 5/2) sandy clay, reddish brown (5YR 4/3) and dark reddish gray (5YR 4/2) moist, reddish brown (5YR 5/4) moist crushed; moderate coarse prismatic structure that parts to moderate fine prisms; very hard, very firm, sticky and plastic; common prominent clay films on faces of peds and in some root channels; organic staining along some ped faces and in some root channels; 13 percent paragravel (soft sandstone gravel); slightly acid (pH 6.1); gradual irregular boundary.

BC—29 to 44 inches; mixed materials of reddish brown (5YR 4/4) clay, and brownish yellow (10YR 6/6) sandy clay loam, dark reddish brown (5YR 3/4) and brownish yellow (10YR 6/6) moist; massive; very hard, very firm, clay is very sticky and plastic, sandy clay loam is sticky and slightly plastic; many pressure faces in the clay part; 5 percent gravel; effervescent in few fine masses of lime directly above bedrock; neutral (pH 6.8); abrupt smooth boundary.

R—44 inches; sandstone bedrock, weathered in the upper inch.

The depth to bedrock ranges from 40 to 60 inches from the mineral soil surface. The particle-size control section has 35 to 55 percent clay and 0 to 15 percent sandstone rock fragments. Some pedons have a C horizon.

A horizon: The hue is 7.5YR or 10YR; the value is 3 or 4 dry, 2 or 3 moist, and a chroma of 1 through 3. The texture typically is loam or clay loam. The reaction is slightly acid or neutral.

Bt horizon: The hue is 5YR or 7.5YR; the value is 3 through 6 dry, 3 or 4 moist; and the chroma is 2 through 6. The texture typically is clay loam, clay, or sandy clay. The reaction is slightly acid or neutral.

BC or C horizons: The hue is 5YR through 10YR; the value is 4 through 7 dry, 3 through 6 moist; and the chroma is 3 through 6. The texture is clay loam, sandy clay loam, or clay. The particle-size control section has 35 percent or more clay. The reaction is neutral to slightly alkaline.

Caviness Series

The Caviness series consists of deep, well drained soils on mountain slopes. These soils formed in slope alluvium and residuum derived mostly from Dakota sandstone. The slopes range from 15 to 30 percent. The elevation ranges from 8,800 to 10,600 feet. The average annual precipitation ranges from 25 to 35 inches. The average annual air temperature ranges from 34 to 40 degrees F.

These soils are fine, smectitic, Umbric Palecryalfs.

A typical pedon of Caviness loam, 15 to 30 percent slopes, is located about 300 feet east and 400 feet north of the southwest corner of sec. 23, T. 36 N., R. 12 W.:

Oi—0 to 3 inches; organic layer of leaves and roots.

A1—3 TO 13 inches; grayish brown (10YR 5/2) loam; dark brown (7.5YR 3/2) moist;

- weak medium granular structure; soft, friable, nonsticky and nonplastic; 2 percent gravel and 5 percent cobbles; strongly acid (pH 5.2); clear wavy boundary.
- A2—13 to 21 inches; brown (10YR 5/3) stony loam, dark brown (7.5YR 3/2) moist; weak medium subangular blocky structure parting to moderate fine granular; soft, friable, nonsticky and nonplastic; 5 percent gravel, 10 percent cobbles, and 10 percent stones; strongly acid (pH 5.2); clear irregular boundary.
- E—21 to 32 inches; pink (7.5YR 7/4) stony sandy clay loam; brown (7.5YR 5/4) moist; moderate medium granular structure; slightly hard, friable, slightly sticky and slightly plastic; 5 percent gravel, 10 percent cobbles, and 10 percent stones; very strongly acid (pH 5.0); abrupt smooth boundary.
- Bt—32 to 51 inches; light red (2.5YR 6/6) clay; red (2.5YR 5/6) moist; moderate medium prismatic structure parting to medium angular blocky; very hard, very firm, very sticky and very plastic; many prominent clay films on faces of peds; 2 percent gravel, 2 percent cobbles, and 1 percent stones; very strongly acid (pH 4.8); gradual smooth boundary.
- BC—51 to 58 inches; yellowish red (5YR 5/6) sandy clay, yellowish red (5YR 4/6) moist; massive; very hard very firm, sticky and plastic; 2 percent gravel, 2 percent cobbles, and 1 percent stones; very strongly acid (pH 4.6); abrupt smooth boundary.
- R—58 inches; hard sandstone.

The mollic epipedon ranges from 16 to 26 inches thick. The depth to lithic contact ranges from 40 to 60 inches from the mineral soil surface. The particle-size control section has 5 to 35 percent sandstone rock fragments.

A horizon: The hue is 7.5YR or 10YR; the value is 4 or 5 dry, 2 or 3 moist; and the chroma is 2 or 3. The reaction is strongly acid or moderately acid.

E horizon: The hue is 7.5YR or 10YR; the value is 6 or 7 dry, 4 or 5 moist; and the chroma is 3 or 4. The reaction is very strongly acid to moderately acid.

Bt horizon: The hue is 2.5YR or 5YR; the value is 5 or 6 dry, 4 or 5 moist; and the chroma is 4 through 8. The texture of the fine-earth fraction is clay, sandy clay, or clay loam. Some pedons have rock fragment modifiers. The particle-size control section has 35 to 50 percent clay.

The reaction is very strongly acid or strongly acid.

Creek Series

The Creek series consists of very deep, well drained soils on mountain slopes. These soils formed in slope alluvium and colluvium derived from shale and sandstone. The slopes range from 10 to 40 percent. The elevation ranges from 7,800 to 8,200 feet. The average annual precipitation ranges from 17 to 19 inches, the average annual air temperature ranges from 41 to 43 degrees F.

These soils are clayey-skeletal, smectitic, frigid Inceptic Haplustalfs.

A typical pedon of Creek very flaggy clay loam, 10 to 40 percent slopes, is located about 1,200 feet east and 1,000 feet north of the southwest corner of sec. 18, T. 44 N., R. 13 W., San Miguel Soil Survey area, Colorado:

Oi—0 to 1 inch; slightly decomposed pine needles.

- A—1 inch to 6 inches; very dark grayish brown (10YR 3/2) very flaggy clay loam, black (10YR 2/1) moist; moderate fine granular structure; hard, very friable, nonsticky and slightly plastic; common fine and medium pores and roots; 10 percent gravel and 30 percent flagstones; neutral (pH 7.0); clear wavy boundary.
- E—6 to 14 inches; brown (7.5YR 5/2) very cobbly clay loam, dark brown (7.5YR 3/4) moist; moderate medium subangular blocky structure; very hard, friable, sticky

and slightly plastic; common fine and medium pores and roots; 10 percent gravel and 40 percent cobbles; neutral (pH 7.0); clear smooth boundary.

Bt—14 to 23 inches; brown (7.5YR 5/4) very cobbly clay loam, strong brown (7.5YR 4/6) moist; weak medium subangular blocky structure; extremely hard, friable, sticky and plastic; few fine pores and roots; 10 percent gravel, 40 percent cobbles, and 10 percent stones; few prominent clay films on faces of peds; neutral (pH 7.0); abrupt wavy boundary;

2Bk1—23 to 32 inches; weak red (2.5YR 4/2) clay, dusky red (2.5YR 3/2) moist; massive; extremely hard, firm, sticky and plastic; 10 percent cobbles; calcium carbonate disseminated throughout; strongly effervescent; slightly alkaline (pH 7.8); abrupt wavy boundary.

2Bk2—32 to 61 inches; reddish gray (5YR 5/2) clay, dark reddish gray (5YR 4/2) moist; massive; hard, very friable, sticky and plastic; 5 percent gravel; few calcium carbonate splotches on ped faces; violently effervescent; moderately alkaline (pH 8.0).

The particle-size control section has 35 to 50 percent clay and 35 to 60 percent sandstone rock fragments. Calcium carbonate is at a depth of 22 to 30 inches from the mineral soil surface.

A horizon: The hue is 7.5YR or 10YR; the value is 3 or 4 dry, 2 or 3 moist; and the chroma is 2 through 4.

E horizon: The hue is 7.5YR or 10YR; the value is 4 or 5 dry, 3 or 4 moist; and the chroma is 2 through 4.

Bt horizon: The hue is 7.5YR or 10YR; the value is 4 or 5 dry, 3 or 4 moist; and the chroma is 4 through 6. The texture of the fine-earth fraction is clay loam or clay with rock modifiers of very cobbly.

2Bk horizon: The hue is 2.5YR or 5YR; the value is 4 or 5 dry, 3 or 4 moist; and the chroma is 2 through 4. The calcium carbonate equivalent ranges from 5 to 10 percent. The reaction is slightly alkaline or moderately alkaline.

Chris Series

The Chris series consists of very deep, well drained soils on mountain slopes. These soils formed in slope alluvium derived dominantly from sandstone. The slopes range from 9 to 45 percent. The elevation ranges from 8,500 to 10,000 feet. The average annual precipitation ranges from 30 to 40 inches. The average annual air temperature ranges from 36 to 40 degrees F.

These soils are clayey-skeletal, smectitic, Eutric Glossocryalfs

A typical pedon of Chris gravelly loam is in an area of Chris-Nordic complex, 15 to 45 percent slopes, located in the northeast quarter of the northwest quarter, about 3,200 feet west and 800 feet south of the northeast corner of Sec. 25, T. 36 N., R. 6 W.

Oi—0 to 1 inch; organic layer of partly decomposed needles and leaves.

E—1 inch to 13 inches; pinkish gray (7.5YR 6/2) gravelly loam, brown (7.5YR 5/2) moist; moderate fine granular structure; soft, very friable, non sticky and non plastic; 15 percent gravel, 3 percent cobbles, and 1 percent stones; neutral (pH 7.2); clear wavy boundary.

E/B—13 to 23 inches; (60 percent E) pinkish gray (5YR 6/2) gravelly sandy clay loam, light reddish gray (5YR 5/2) moist, and (40 percent B) reddish brown (5YR 6/3) gravelly clay loam, reddish brown (5YR 5/3) moist; moderate medium subangular blocky structure; slightly hard, friable, sticky and plastic; 20 percent gravel, 10 percent cobbles, and 2 percent stones; neutral (pH 6.8); clear wavy boundary. This horizon consists of tongues of albic materials extending into the underlying material

- B/E—23 to 31 inches; (80 percent B) light reddish brown (5YR 6/4) very cobbly clay loam, reddish brown (5YR 4/4) moist, and (20 percent E) pinkish gray (5YR 6/2) very cobbly loam, reddish gray (5YR 5/2) moist; moderate medium subangular blocky structure; slightly hard, friable, sticky and plastic; common distinct clay films on faces of peds of the B part; 20 percent gravel, 30 percent cobbles, and 5 percent stones; slightly acid (pH 6.2); gradual wavy boundary.
- Bt—31 to 42 inches; light reddish brown (5YR 6/4) very cobbly clay loam, yellowish red (5YR 4/6) moist; moderate medium angular and subangular blocky structure; hard, firm, sticky and plastic; common prominent clay films on faces of peds; 20 percent gravel, 30 percent cobbles, and 5 percent stones; moderately acid (pH 6.0); gradual wavy boundary.
- C—42 to 61 inches; light reddish brown (5YR 6/4) very cobbly sandy clay loam, reddish brown (5YR 5/4) moist; massive; hard, friable, slightly sticky and plastic; 20 percent gravel, 30 percent cobbles, and 10 percent stones; moderately acid (pH 6.0).

The particle-size control sections in the E/B, B/E, Bt, and C horizons have 35 to 60 percent sandstone rock fragments.

E horizon: The hue is 2.5YR through 10YR; the value is 5 through 7 dry, 4 through 6 moist; and the chroma is 1 through 3. The reaction is slightly acid or neutral.

E/B horizon: The hue is 2.5YR or 5YR.

E part: The value is 5 through 7 dry, 4 through 6 moist; and the chroma is 1 through 3. The texture of the fine-earth fraction is loam or sandy clay loam.

B part: The value is 5 or 6 dry, 4 or 5 moist; and the chroma is 3 through 6. The texture of the fine-earth fraction is clay loam or sandy clay loam.

B/E horizon: The hue is 2.5YR or 5YR.

B part: The value is 5 or 6 dry, 4 or 5 moist; and the chroma is 3 through 6. The texture of the fine-earth fraction is clay loam or clay.

E part: The value is 5 through 7 dry, 4 through 6 moist; and the chroma is 1 through 3. The texture of the fine-earth fraction is loam or sandy clay loam.

Bt horizon: The hue is 2.5YR or 5YR; the value is 5 or 6 dry, 4 or 5 moist; and the chroma is 2 through 6. The texture of the fine-earth fraction typically is clay loam or clay. The particle-size control section has 35 to 50 percent clay and more than 15 percent fine or coarser sand. The reaction is moderately acid or slightly acid.

C horizon: The hue is 2.5YR through 7.5YR; the value is 5 or 6 dry, 4 or 5 moist and chroma of 3 through 6. The texture of the fine-earth fraction typically is sandy clay loam or clay loam.

Clayburn Series

The Clayburn series consists of very deep, well drained soils on mountain slopes and mesas. These soils formed in slope alluvium derived mostly from sandstone and shale, and from mixed sources. The slopes range from 2 to 60 percent. The elevation ranges from 8,000 to 11,000 feet. The average annual precipitation ranges from 30 to 45 inches. The average annual air temperature ranges from 32 to 40 degrees F.

These soils are fine-loamy, mixed, superactive Pachic Argicryolls.

A typical pedon of Clayburn loam is in an area of Clayburn-Hourglass complex, 5 to 25 percent slopes, located near the west edge of the southwest quarter of sec. 3, T. 37 N., R. 8 W.:

- A1—0 to 5 inches; grayish brown (10YR 5/2) loam, very dark brown (10YR 2/2) moist; moderate, medium granular structure; soft, friable, nonsticky and nonplastic; slightly acid (pH 6.2); clear smooth boundary.
- A2—5 to 13 inches; dark grayish brown (10YR 4/2) loam, very dark brown (10YR 2/2) moist; weak, coarse subangular blocky structure parting to moderate medium

granular; slightly hard, friable, non sticky and non plastic; slightly acid (pH 6.2); clear smooth boundary.

Bt1—13 to 18 inches; brown (10YR 5/3) clay loam, dark brown (10YR 3/3) moist; weak, medium prismatic structure that parts to moderate, medium subangular blocky; slightly hard, friable, slightly sticky and slightly plastic; few faint clay films on faces of peds and in ped pores; 5 percent gravel; slightly acid (pH 6.4); clear smooth boundary.

Bt2—18 to 36 inches; brown (7.5YR 5/4) clay loam, brown (7.5YR 4/4) moist; moderate, medium subangular blocky structure; hard, firm, sticky and plastic; common distinct clay films on faces of peds; 5 percent gravel; slightly acid (pH 6.4); gradual wavy boundary.

Bt3—36 to 48 inches; light brown (7.5YR 6/4) sandy clay loam, brown (7.5YR 5/4) moist; weak, medium subangular blocky structure that parts to moderate, medium granular; hard, firm, sticky and plastic; few faint clay films on faces of peds and in pores; 7 percent gravel, 5 percent cobbles, and 2 percent stones; neutral (pH 6.6); gradual wavy boundary.

C—48 to 60 inches; light brown (7.5YR 6/4) sandy clay loam, brown (7.5YR 5/4) moist; massive; slightly hard, firm, sticky and plastic; 5 percent gravel, 5 percent cobbles, and 3 percent stones; neutral (pH 6/6).

The mollic epipedon is 16 to 40 inches thick. The depth to the top of the argillic horizon is less than 24 inches. The particle-size control section has 0 to 15 percent rock fragments in the Bt horizons.

A horizon: The hue is 7.5YR or 10YR; the value is 4 or 5 dry, 2 or 3 moist; and the chroma is 1 through 3. The reaction is slightly acid or neutral.

Bt1 horizon: The hue is 7.5YR or 10YR; the value is 4 or 5 dry, 2 or 3 moist; and the chroma is 1 through 3. The texture typically is loam or clay loam. The reaction is slightly acid or neutral.

Bt2 and Bt3 horizon: The hue is 7.5YR or 10YR; the value is 5 or 6 dry, 4 or 5 moist; and the chroma is 3 through 6. The texture typically is sandy clay loam or clay loam. The reaction is slightly acid or neutral.

C horizon: The hue is 5YR through 10YR. The texture is loam, sandy clay loam, or clay loam. The reaction is slightly acid or neutral.

Coulterg Series

The Coulterg series consists of very deep, well drained soils on hills. These soils formed in slope alluvium derived dominantly from shale. The slopes range from 10 to 50 percent. The elevation ranges from 7,800 to 8,200 feet. The average annual precipitation ranges from 16 to 18 inches, the average annual air temperature ranges from 41 to 43 degrees F.

These soils are fine-loamy, mixed, superactive, frigid Entic Haplustolls.

A typical pedon of Coulterg clay loam is in an area of Pagoda-Coulterg-Wiggler complex, 10 to 60 percent slopes, about 3,150 feet west and 1,800 feet south of the northeast corner of sec. 2, T. 41 N., R. 14 W., San Miguel Soil Survey Area, Colorado:

A—0 to 5 inches; dark grayish brown (10YR 4/2) clay loam, very dark grayish brown (10YR 3/2) moist; weak very fine granular structure; slightly hard, very friable, nonsticky and nonplastic; strongly effervescent; moderately alkaline (pH 8.0); abrupt smooth boundary.

BA—5 to 10 inches; dark grayish brown (10YR 4/2) clay loam, very dark grayish brown (10YR 3/2) moist; weak fine and medium granular structure; slightly hard, very friable, nonsticky and slightly plastic; strongly effervescent; moderately alkaline (pH 8.0); clear wavy boundary.

- Bw—10 to 14 inches; grayish brown (10YR 5/2) clay loam, very dark grayish brown (10YR 3/2) moist; moderate fine subangular blocky structure; hard, very friable, slightly sticky and slightly plastic; strongly effervescent; moderately alkaline (pH 8.2); clear wavy boundary.
- Bk1—14 to 31 inches; light brownish gray (10YR 6/2) clay loam, dark grayish brown (10YR 4/2) moist; massive; slightly hard, friable, slightly sticky and slightly plastic; calcium carbonate disseminated throughout; violently effervescent; moderately alkaline (pH 8.2).
- Bk2—31 to 60 inches; light brownish gray (10YR 6/2) channery loam, dark grayish brown (10YR 4/2) moist; massive; very hard, friable, slightly sticky and slightly plastic; calcium carbonate disseminated throughout; 20 percent thin shale fragments; violently effervescent; moderately alkaline (pH 8.2).

The mollic epipedon is 8 to 15 inches thick and may include part of or the entire Bw horizon. In some pedons the soil is noncalcareous for a few inches into the surface. The particle-size control section has 18 to 30 percent clay and 0 to 20 percent shale rock fragments. Most of the shale fragments are in the lower part of the profile.

A horizon: The hue is 2.5Y or 10YR; the value is 4 or 5 dry, 2 or 3 moist; and the chroma is 2 or 3. The reaction is slightly alkaline or moderately alkaline.

Bw horizon: The hue is 2.5Y or 10YR; the value is 4 to 6 dry, 3 or 4 moist; and the chroma is 2 to 4. The reaction is slightly alkaline or moderately alkaline.

Bk horizon: The hue is 2.5Y or 10YR. The texture of the fine-earth fraction is loam, clay loam, or sandy clay loam. The calcium carbonate equivalent ranges from 5 to 15 percent. The reaction is slightly alkaline or moderately alkaline.

Cowtown Series

The Cowtown series consists of very deep, well drained soils on mountain slopes. These soils formed in slope alluvium derived dominantly from shale. The slopes range from 5 to 60 percent. The elevation ranges from 9,600 to 11,600 feet. The average annual precipitation ranges from 30 to 40 inches. The average annual air temperature ranges from 32 to 38 degrees F.

These soils are fine, smectitic Umbric Haplocryalfs.

A typical pedon of Cowtown loam is in an area of Cowtown-Scout complex, 5 to 30 percent slopes, located 3.2 miles northwest of Dunton Guard Station on the road to Groundhog Reservoir, in an unsectionized area about 2,000 feet west and 1,300 feet south of the projected northeast corner of sec. 24, T. 41 N., R. 12 W.:

- A1—0 to 3 inches; grayish brown (10YR 5/2) loam, very dark grayish brown (10YR 3/2) moist; moderate fine granular structure; soft, very friable, slightly sticky and slightly plastic; 7 percent gravel; many very fine roots throughout; neutral (pH 6.6); clear smooth boundary.
- A2—3 to 5 inches; grayish brown (10YR 5/2) silt loam, dark brown (10YR 3/3) moist; moderate fine granular structure; soft, very friable, slightly sticky and slightly plastic; 7 percent gravel; many very fine roots throughout; slightly acid (pH 6.4); clear smooth boundary.
- E—5 to 16 inches; light gray (10YR 7/2) cobbly silt loam, brown (10YR 5/3) moist; moderate medium subangular blocky structure parting to moderate fine granular; friable, slightly hard, slightly sticky and slightly plastic; 15 percent gravel and 10 percent cobbles; few very fine and fine roots throughout; few very fine oblique discontinuous tubular pores; moderately acid (pH 6.0); gradual wavy boundary.
- Bt1—16 to 33 inches; light gray (10YR 7/2) silty clay, brown (10YR 5/3) moist; many medium distinct yellowish brown (10YR 5/6) lithochromic mottles; moderate fine angular blocky structure; hard, firm, slightly sticky and plastic; few very fine and

few medium roots throughout; few very fine and fine oblique discontinuous tubular pores; many distinct clay films on faces of peds and in pores; moderately acid (pH 5.8); clear smooth boundary.

Bt2—33 to 60 inches; pale brown (10YR 6/3) silty clay, yellowish brown (10YR 5/4) moist; moderate fine angular blocky structure; hard, firm, slightly sticky and plastic; 7 percent gravel; many distinct clay films on faces of peds and in pores; moderately acid (pH 5.8).

The particle-size control section has 0 to 15 percent sandstone and shale rock fragments in the A and Bt horizons and 5 to 30 percent in the E horizon.

A horizon: The hue is 10YR; the value is 4 or 5 dry, 2 or 3 moist; and the chroma is 2 or 3. The reaction is slightly acid or neutral.

E horizon: The hue is 7.5YR or 10YR; the value is 6 or 7 dry, 4 to 6 moist; and the chroma is 2 or 3. The reaction is moderately acid to neutral.

Bt horizons: The hue is 7.5YR or 10YR; the value is 5 to 7 dry, 4 to 6 moist; and the chroma is 2 through 5. The texture typically is silty clay, clay, or clay loam. The particle-size control section has 35 to 50 percent clay. The reaction is moderately acid to neutral.

Cryaquepts

Cryaquepts are moderately deep to very deep, poorly drained soils in alpine depressions and drainageways. These soils formed in alluvium derived mostly from volcanic materials. The slopes range from 0 to 6 percent. The elevation ranges from 11,600 to 11,800 feet. The average annual precipitation ranges from 40 to 50 inches. The average annual air temperature ranges from 28 to 32 degrees F.

These soils are Cryaquepts.

A reference pedon of Cryaquepts, 0 to 6 percent slopes, is located in the northwest quarter of the northeast quarter of sec. 25, T. 43 N., R. 1 W., Rio Grande National Forest-West Part Soil Survey Area, Colorado:

A—0 to 8 inches; dark grayish brown (10YR 4/2) loam, very dark grayish brown (10YR 3/2) moist; moderate fine granular structure; soft, very friable, non sticky and non plastic; strongly acid (pH 5.3); gradual wavy boundary.

Bw—8 to 15 inches; pinkish gray (7.5YR 6/2) cobbly loam, brown (7.5YR 4/4) moist; weak fine subangular blocky structure; very friable, non sticky and non plastic; 10 percent gravel and 15 percent cobbles; few, fine distinct strong brown (7.5YR 5/8) and yellow (10YR 7/8) masses of iron concentrations; very strongly acid (pH 4.7); gradual wavy boundary.

C—15 to 28 inches; pale brown (10YR 6/3) extremely cobbly loam, brown (10YR 4/3) moist; massive; soft, very friable, slightly sticky and slightly plastic; 30 percent gravel and 45 percent cobbles; common fine distinct strong brown (10YR 5/8) and yellow (10YR 7/8) masses of iron concentrations; very strongly acid (pH 4.7).

R—28 inches; latitic ash flow tuff.

Hue is 7.5YR or 10YR. The depth to bedrock ranges from 20 to 60 inches or more. The soil is very strongly acid or strongly acid throughout. A histic epipedon occurs on some pedons and ranges from 7 to 12 inches thick, depending on local drainage. The surface is nonstony to very stony. A seasonal high water table usually is at a depth of 6 to 20 inches year round. The soil is subject to long periods of flooding in the spring and early summer.

Cryaquolls

Cryaquolls are very deep, poorly drained soils on flood plains, valley floors, and depressions on mesas. These soils formed in alluvium derived from mixed sources.

The slopes range from 0 to 5 percent. The elevation ranges from 8,500 to 13,000 feet. The average annual precipitation ranges from 20 to 45 inches. The average annual air temperature ranges from 28 to 38 degrees F.

These soils are Cryaquolls.

A reference pedon of Cryaquolls is in an area of Cryaquolls-Typic Cryaquents complex, 1 to 5 percent slopes, located 2,000 feet east and 600 feet north of the southwest corner of sec. 24, T. 39 N., R. 10 W.:

- A1—0 to 7 inches: very dark grayish brown (10YR 3/2) loam; very dark brown (10YR 2/2) moist; moderate medium granular structure; soft, friable, slightly sticky and slightly plastic; 10 percent gravel and 1 percent cobbles; neutral (pH 6.7), gradual wavy boundary.
- A2—7 to 12 inches; grayish brown (10YR 5/2) loam; very dark brown (10YR 2/2) moist; weak medium granular structure; soft, very friable, non sticky and non plastic; 10 percent gravel and 2 percent cobbles; many medium distinct yellowish brown (10YR 5/6) masses of iron concentrations; slightly acid (pH 6.4); clear wavy boundary.
- C—12 to 60; pale brown (10YR 6/3) and yellowish brown (10YR 5/4) stratified extremely gravelly loam and extremely gravelly sandy loam; brown (10YR 5/3) and dark yellowish brown (10YR 4/4) moist; massive; soft, very friable, nonsticky and nonplastic; many large distinct yellowish brown (10YR 5/6) masses of iron concentrations; 60 percent gravel and 5 percent cobbles; slightly acid (pH 6.4).

The mollic epipedon is 7 to 24 inches thick. The particle-size control section has 0 to 75 percent rock fragments. A seasonal high water table is at a depth of 6 to 20 inches in the spring and summer months. The soil is subject to brief periods of flooding.

A horizon: The hue is 5YR through 10YR; the value is 3 through 5 dry, 2 or 3 moist; and the chroma is 1 through 3. The reaction is moderately acid through neutral.

C horizon: The hue is 5YR through 10YR; the value is 5 through 7 dry, 4 or 5 moist; and the chroma is 3 through 6. The texture is variable, ranging from stratified loam and sandy loam to clay loam, and has rock fragment modifiers in some pedons. Iron concentrations are common throughout the C horizon. The reaction is very strongly acid through neutral.

Cryofibrists

The Cryofibrists consist of very deep, very poorly drained soils in drainageways, and in depressions on mesas. These soils formed in organic material. The slopes range from 0 to 5 percent. The elevation ranges from 9,100 to 13,000 feet. Average annual precipitation ranges from 25 to 45 inches, and average annual air temperature ranges from 28 to 38 degrees F.

These soils are Cryofibrists.

A reference pedon of Cryofibrists is in an area of Cryaquents-Cryaquolls-Cryofibrists complex, 0 to 5 percent slopes, located about 400 feet south and 2,400 feet east of the northwest corner of sec. 3, T. 37 N., R. 12 W.:

- Oi1—0 to 10 inches; dark brown (10YR 3/3) peat, 50 percent fiber, black (10YR 2/1) moist; massive; slightly hard, friable, nonsticky and nonplastic; many very fine, fine, and common medium roots; strongly acid (pH 5.4); diffuse wavy boundary.
- Oi2—10 to 30 inches; dark brown (10YR 3/3) peat, 40 percent fiber, black (10YR 2/1) moist; massive; slightly hard, friable, nonsticky and nonplastic; many very fine, fine, and common medium roots; strongly acid (pH 5.4); diffuse wavy boundary.
- Oa—30 to 60 inches; very dark grayish brown (10YR 3/2) muck, 15 percent fiber, black (10YR 2/1) moist; massive; slightly hard, friable, nonsticky and nonplastic; many very fine, common fine and medium roots; very strongly acid (pH 4.8).

The water table usually is at a depth of 0 to 36 inches year round. The reaction ranges from very strongly acid to moderately acid. Hue is 7.5YR or 10YR. The depth to loamy mineral soil is greater than 30 inches.

Cryohemists

Cryohemists consist of very deep, very poorly drained soils on valley floors and in depressions. These soils formed in accumulations of organic materials over alluvium. The slopes range from 1 to 5 percent. The elevation ranges from 10,500 to 11,000 feet. Average annual precipitation ranges from 35 to 45 inches, and average annual air temperature ranges from 30 to 34 degrees F.

These soils are Cryohemists.

A reference pedon of Cryohemists is in an area of Cryohemist-Cryaquolls association, 0 to 12 percent slopes, in the northeast quarter of sec. 26, T. 38 N., R. 2 E., Rio Grande National Forest-West Part Soil Survey Area, Colorado:

- Oe1—0 to 14 inches; brown (10YR 5/3) mucky peat, dark brown (10YR 3/3) moist; very strongly acid (pH 4.7); clear smooth boundary.
- Oe2—14 to 26 inches; brown (10YR 5/3) mucky peat, and dark brown (10YR 3/3) moist; very dark brown (10YR 2/3) and dark grayish brown (10YR 4/2) moist, iron reductions; strongly acid (pH 5.4); clear smooth boundary.
- Oe3—26 to 38 inches; brown (10YR 5/3) mucky peat, and dark brown (7.5YR 3/2) moist; dark grayish brown (10YR 2/1) moist, iron reductions; strongly acid (pH 5.4); clear smooth boundary.
- 2Cg1—38 to 45 inches; pale brown (10YR 6/3) loam, and very dark grayish brown (2.5Y 3/2) moist; massive; very friable, slightly sticky and slightly plastic; dark gray (2.5Y 4/0) moist, iron reductions; strongly acid (pH 5.4); clear smooth boundary.
- 2Cg2—45 to 60 inches; gray (10YR 5/1) gravelly loam, very dark gray (10YR 3/1) moist; massive; friable, slightly sticky and slightly plastic; 25 percent gravel; dark brown (7.5YR 3/2) moist, iron reductions;; moderately acid (pH 5.8).

Bedrock is generally at a depth of 60 inches or more. A seasonal high water table usually is at a depth of 6 to 18 inches from April through July. The soil is subject to brief periods of flooding. Water table usually is deeper during late summer and fall. The depth to loamy material is greater than 30 inches. The reaction is strongly acid or moderately acid.

Dalmatian Series

The Dalmatian series consists of very deep, moderately well drained soils on flood plains and valley floors. These soils formed in alluvium derived from mixed sources. The slopes range from 0 to 5 percent. The elevation ranges from 7,100 to 8,500 feet. Average annual precipitation ranges from 15 to 20 inches, and average annual air temperature ranges from 41 to 45 degrees F.

These soils are fine-loamy, mixed, superactive, frigid Cumulic Haplustolls.

A typical pedon of Dalmatian loam is in an area of Dalmatian-Apmay-Schrader complex, 0 to 5 percent slopes, located about 1,600 feet east and 2,200 feet south of the northwest corner of sec. 25, T. 37 N., R. 14 W.:

- A—0 to 2 inches; dark grayish brown (10YR 4/2) loam, very dark brown (10YR 2/2) moist; weak fine subangular blocky structure parting to weak fine granular; slightly hard, friable, nonsticky and slightly plastic; many very fine and common fine roots; many very fine continuous pores; neutral (pH 6.8); clear smooth boundary.

- AB—2 to 13 inches; dark grayish brown (10YR 4/2) loam, very dark brown (10YR 2/2) moist; moderate medium subangular blocky structure parting to moderate fine subangular blocky; slightly hard, friable, nonsticky and slightly plastic; many very fine and few fine roots; many very fine and few medium continuous pores; neutral (pH 6.8); clear wavy boundary.
- Bw1—13 to 25 inches; dark grayish brown (10YR 4/2) loam, very dark brown (10YR 2/2) moist; moderate medium subangular blocky structure; slightly hard, friable, slightly sticky and plastic; many very fine and few fine roots; many very fine continuous pores; neutral (pH 6.8); clear smooth boundary.
- Bw2—25 to 39 inches; dark brown (10YR 3/3) loam, very dark brown (10YR 2/2) moist; moderate coarse subangular blocky structure; slightly hard, friable, slightly sticky and plastic; few fine roots; many very fine continuous pores; neutral (pH 6.8); clear wavy boundary.
- Bw3—39 to 45 inches; dark grayish brown (10YR 4/2) sandy clay loam, very dark brown (10YR 2/2) moist; weak fine subangular blocky structure; slightly hard, friable, slightly sticky and plastic; few fine roots; many very fine continuous pores; common medium distinct strong brown (7.5YR 4/6) masses of iron concentrations; neutral (pH 6.8); clear smooth boundary.
- Bg1—45 to 49 inches; dark gray (10YR 4/1) sandy clay loam, very dark brown (10YR 2/2) moist; moderate coarse subangular blocky structure parting to moderate fine subangular blocky; hard, friable, nonsticky and slightly plastic; few fine roots; many very fine continuous pores; common medium distinct yellowish brown (10YR 5/4) masses of iron concentrations; neutral (pH 6.8); gradual wavy boundary.
- Bg2—49 to 60 inches; dark gray (10YR 4/1) gravelly sandy loam, very dark grayish brown (10YR 3/2) moist; massive; very hard, friable, nonsticky and nonplastic; 20 percent gravel and 10 percent cobbles; common medium distinct strong brown (7.5YR 4/6) masses of iron concentrations; neutral (pH 6.8).

The mollic epipedon is 20 to 60 inches or more thick. The particle-size control section has 0 to 15 percent rock fragments. Organic carbon decreases irregularly with depth. Iron concentrations occur in the Bw3 and Bg horizons. A seasonal high water table usually is at a depth of 36 to 60 inches from April through July. The reaction is neutral.

A horizon: The hue is 7.5YR or 10YR; the value is 3 or 4 dry, 2 or 3 moist; and the chroma is 1 through 3.

Bw horizon: The hue is 7.5YR or 10YR; the value is 3 through 6 dry, 2 through 4 moist; and the chroma is 2 or 3. The texture typically is loam or sandy clay loam.

Bg horizons: The hue is 7.5YR or 10YR; the value is 3 through 6 dry, 2 through 4 moist; and the chroma is 1 or 2. The texture is loam, sandy loam, sandy clay loam, or gravelly sandy loam.

Dapoin Series

The Dapoin series consists of very deep, well drained soils on alluvial fans. These soils formed in alluvium derived from shale. The slopes range from 1 to 15 percent. The elevation ranges from 7,800 to 8,500 feet. The average annual precipitation ranges from 17 to 20 inches, the average annual air temperature ranges from 41 to 43 degrees F.

These soils are fine, smectitic, frigid Vertic Haplustolls.

A typical pedon of Dapoin clay loam is in an area of Narraguinnep-Dapoin complex, 1 to 15 percent slopes, about 800 feet north and 500 feet west of the southeast corner of sec. 29, T. 40 N., R. 14 W., San Miguel Soil Survey Area, Colorado:

- A1—0 to 4 inches; dark brown (10YR 3/3) clay loam, very dark grayish brown (10YR 3/2) moist; weak fine subangular blocky structure; soft, very friable, slightly sticky and plastic; slightly alkaline (pH 7.4); clear smooth boundary.
- A2—4 to 13 inches; dark grayish brown (10YR 4/2) clay loam, very dark grayish brown (10YR 3/2) moist; moderate fine subangular blocky structure; hard, friable, sticky and plastic; slightly alkaline (pH 7.4); clear smooth boundary.
- Bw—13 to 18 inches; grayish brown (2.5Y 5/2) clay, dark grayish brown (2.5Y 4/2) moist; strong coarse subangular blocky structure; very hard, firm, slightly sticky and plastic; slightly alkaline (pH 7.4); clear smooth boundary.
- Bk1—18 to 29 inches; light olive brown (2.5Y 5/4) clay, olive brown (2.5Y 4/4) moist; massive; extremely hard, very firm, sticky and plastic; calcium carbonate disseminated throughout; strongly effervescent; slightly alkaline (pH 7.8); clear wavy boundary.
- Bk2—29 to 32 inches; light brownish gray (2.5Y 6/2) channery clay loam, light olive brown (2.5Y 5/4) moist; massive; extremely hard, very firm, slightly sticky and plastic; calcium carbonate disseminated throughout; 15 percent channers and 5 percent parachanners (soft shale chips); violently effervescent; moderately alkaline (pH 8.4); clear wavy boundary.
- Bk3—32 to 38 inches; light brownish gray (2.5Y 6/2) channery clay, light olive brown (2.5Y 5/4) moist; massive; extremely hard, very firm, sticky and plastic; calcium carbonate disseminated throughout; 20 percent channers and 5 percent parachanners (soft shale chips); violently effervescent; moderately alkaline (pH 8.4); clear wavy boundary.
- Bk4—38 to 44 inches; light yellowish brown (2.5Y 6/4) clay loam, light olive brown (2.5Y 5/4) moist; massive; extremely hard, very firm, sticky and plastic; calcium carbonate disseminated throughout; violently effervescent; moderately alkaline (pH 8.4); clear wavy boundary.
- Bk5—44 to 60 inches; light gray (2.5Y 7/2) clay loam, olive (5Y 5/3) moist; massive; extremely hard, very firm, slightly sticky and plastic; calcium carbonate disseminated throughout; 10 percent channers (hard shale chips); violently effervescent; moderately alkaline (pH 8.4).

The mollic epipedon is 10 to 16 inches thick. The particle-size control section has 35 to 50 percent clay and 0 to 25 percent shale rock fragments.

A horizon: The hue is 7.5YR or 10YR; the value is 3 through 5 dry, 2 or 3 moist, and a chroma of 2 or 3. The reaction is neutral or slightly alkaline.

Bw horizon: The hue is 2.5Y or 10YR; the value is 5 or 6 dry, 4 or 5 moist; and the chroma is 2 or 3. The particle-size control section has 0 to 5 percent rock fragments. The reaction is neutral or slightly alkaline.

Bk horizons: The hue is 2.5Y or 10YR; the value is 5 through 7 dry, 4 or 5 moist; and the chroma is 2 through 4. The calcium carbonate equivalent ranges from 5 to 15 percent. The particle-size control section has 0 to 25 percent rock fragments. The reaction is moderately alkaline.

Detra Series

The Detra series consists of deep, well drained soils on mesas and hills. These soils formed eolian materials and slope alluvium over residuum derived from sandstone and shale. The slopes range from 1 to 15 percent. The elevation ranges from 7,800 to 8,500 feet. The average annual precipitation ranges from 18 to 22 inches, and the average annual air temperature ranges from 41 to 45 degrees F.

These soils are fine-loamy, mixed, superactive, frigid Pachic Argiustolls.

A typical pedon of Detra loam is in an area of Jemco-Detra-Beje, moist complex, 1 to 15 percent slopes, located about 400 feet west and 1,000 feet north of the southeast corner of sec. 19, T. 39 N., R. 15 W.:

A—0 to 16 inches; dark brown (10YR 3/3) loam, very dark brown (10YR 2/2) moist; moderate medium granular structure; slightly hard, very friable, slightly sticky and slightly plastic; neutral (pH 7.2); gradual smooth boundary.

BAt—16 to 30 inches; brown (7.5YR 4/3) loam, dark brown (7.5YR 3/3) moist; moderate medium subangular blocky structure; hard, friable, sticky and plastic; few distinct clay films on faces of peds and in root channels; neutral (pH 7.0); clear smooth boundary.

Bt1—30 to 43 inches; light reddish brown (5YR 6/4) clay loam, reddish brown (5YR 4/4) moist; moderate medium subangular blocky structure; slightly hard, friable, sticky and plastic; common distinct clay films on faces of peds; neutral (pH 7.2); clear smooth boundary.

Bt2—43 to 51 inches; reddish brown (5YR 5/4) clay loam, reddish brown (5YR 4/4) moist; moderate medium prismatic structure parting to moderate medium subangular blocky; very hard, very firm, very sticky and very plastic; common distinct clay films on faces of peds; neutral (pH 7.2); clear smooth boundary.

2BC—51 to 57 inches; yellowish red (5YR 5/8) sandy clay loam, yellowish red (5YR 5/6) moist; massive; very hard, friable, sticky and plastic; slightly alkaline (pH 7.4); abrupt smooth boundary.

2R—57 inches; sandy shale bedrock, weathered in the upper inch.

The mollic epipedon ranges from 16 to 37 inches thick. The depth to lithic contact of sandstone bedrock ranges from 40 to 60 inches. The reaction is neutral or slightly alkaline. The particle-size control section has 0 to 10 percent rock fragments.

A horizon: The hue is 7.5YR or 10YR; the value is 3 through 5 dry, 2 or 3 moist; and chroma of 1 through 3.

Bt horizon: The hue is 5YR or 7.5YR; the value is 4 through 6 dry, 2 through 4 moist; and the chroma is 2 through 6. The texture of the typically is loam or clay loam. The particle-size control section has 18 to 35 percent clay.

2BC horizon (when present): The hue is 5YR or 7.5YR.

Dolcan Series

The Dolcan series consists of shallow or very shallow, well drained soils on canyon side slopes and hills. These soils formed in colluvium and residuum derived dominantly from sandstone and shale. The slopes range from 25 to 80 percent. The elevation ranges from 6,000 to 8,200 feet. Average annual precipitation ranges from 13 to 16 inches. The average annual air temperature ranges from 47 to 50 degrees F.

These soils are loamy, mixed, superactive, calcareous, mesic, shallow Aridic Ustorthents.

A typical pedon of Dolcan cobbly clay loam is in an area of Wauquie-Dolcan-Rock outcrop complex, 25 to 80 percent slopes, located about 650 feet east and 400 feet south of the northwest corner of sec. 20, T. 38 N., R. 15 W:

A—0 to 4 inches; light brownish gray (10YR 6/2), cobbly clay loam, dark grayish brown (10YR 4/2) moist; moderate fine granular structure parting; slightly hard, friable, slightly sticky and plastic; 10 percent gravel, 10 percent cobbles, and 5 percent stones; strongly effervescent; moderately alkaline (pH 8.0); clear wavy boundary.

Bw—4 to 9 inches; brown (10YR 5/3) gravelly clay loam, brown (10YR 4/3) moist; moderate medium granular structure; hard, firm, sticky and plastic; 15 percent gravel, 3 percent cobbles, and 1 percent stones; strongly effervescent; moderately alkaline (pH 8.0); gradual wavy boundary.

C—9 to 16 inches; pale brown (10YR 6/3) gravelly clay loam, grayish brown (10YR 5/2) moist; massive; hard, firm, sticky and plastic; 30 percent gravel, 3 percent

cobbles, and 1 percent stones; violently effervescent; moderately alkaline (pH 8.0); clear irregular boundary.

Cr—16 to 26 inches; weathered calcareous shale.

The depth to shale bedrock is 6 to 20 inches. The soils usually are calcareous throughout. The particle-size control section has 18 to 35 percent clay and 5 to 35 percent sandstone rock fragments. The reaction is slightly alkaline or moderately alkaline throughout.

A horizon: The hue is 7.5YR or 10YR; the value is 4 through 6 dry, 3 or 4 moist; and the chroma is 2 or 3.

B and C horizons: The hue is 5YR through 10YR; the value is 5 or 6 dry, 4 or 5 moist; and the chroma is 2 through 4.

Dolores Series

The Dolores series consists of very deep, well drained soils on mesas and hills. These soils formed in slope alluvium, colluvium, and alluvium derived dominantly from sandstone but with some from mixed sources. The slopes range from 0 to 65 percent. The elevation ranges from 7,100 to 8,600 feet. Average annual precipitation ranges from 15 to 25 inches, and average annual air temperature ranges from 40 to 45 degrees F.

These soils are clayey-skeletal, smectitic, frigid Typic Paleustalfs.

A typical pedon of Dolores loam is in an area of Dolores-Fivepine complex, 0 to 15 percent slopes, located about 1,900 feet east and 200 feet north of the southwest corner of sec. 29, T. 42 N., R. 17 W.:

Oi—0 to 1 inch; slightly decomposed needles and twigs.

A1—1 inch to 3 inches; reddish brown (5YR 4/3) loam, dark reddish brown (5YR 3/2) moist; weak fine subangular blocky structure parting to weak fine granular; slightly hard, very friable, nonsticky and nonplastic; 5 percent gravel, 5 percent cobbles, 2 percent stones, and 2 percent boulders; neutral (pH 6.6); clear smooth boundary.

A2—3 to 8 inches; reddish brown (5YR 4/3) loam, dark reddish brown (5YR 3/3) moist; moderate medium subangular blocky structure; hard, friable, slightly sticky and slightly plastic; 5 percent gravel, 5 percent cobbles, 2 percent stones, and 2 percent boulders; neutral (pH 6.8); clear wavy boundary.

BA—8 to 10 inches; reddish brown (5YR 5/4) extremely bouldery clay loam, dark reddish brown (5YR 3/3) moist; moderate medium subangular blocky structure; very hard, firm, sticky and plastic; 5 percent gravel, 25 percent stones, and 50 percent boulders; neutral (pH 6.8); gradual wavy boundary.

Bt1—10 to 15 inches; reddish brown (5YR 5/4) extremely bouldery clay loam, reddish brown (5YR 4/4) moist; strong coarse subangular blocky structure parting to strong medium subangular blocky; extremely hard, very firm, very sticky and plastic; few distinct clay films on faces of peds; 5 percent gravel, 25 percent stones, and 50 percent boulders; neutral (pH 6.8); gradual wavy boundary.

Bt2—15 to 24 inches; yellowish red (5YR 4/6) extremely bouldery clay loam, reddish brown (5YR 4/4) moist; strong medium subangular blocky structure; extremely hard, very firm, very sticky and plastic; few distinct clay films on faces of peds; 5 percent gravel, 25 percent stones, and 50 percent boulders; neutral (pH 6.8); clear smooth boundary.

Bt3—24 to 45 inches; yellowish red (5YR 5/6) extremely stony clay, yellowish red (5YR 4/6) moist; strong coarse prismatic structure parting to strong medium subangular blocky; extremely hard, very firm, very sticky and plastic; common distinct clay films on faces of peds; 5 percent gravel, 15 percent cobbles, 50 percent stones, and 5 percent boulders; neutral (pH 6.8); clear smooth boundary.

Bt4—45 to 49 inches; yellowish red (5YR 5/6) extremely stony clay; yellowish red (5YR 4/6) moist; moderate coarse subangular blocky structure; extremely hard, extremely firm, very sticky and very plastic; common distinct clay films on faces of peds; 5 percent gravel, 15 percent cobbles, and 60 percent stones; neutral (pH 6.8); clear smooth boundary.

Bk—49 to 61; brown (7.5YR 5/4) extremely stony clay; pink (7.5YR 7/4) moist, crushed; moderate coarse subangular blocky structure; extremely hard, extremely firm, very sticky and plastic; 5 percent gravel, 15 percent cobbles, and 60 percent stones; many large soft masses of calcium carbonate; effervescent; slightly alkaline (pH 7.8).

The particle-size control section has 35 to 50 percent clay and 35 to 80 percent rock fragments that consist mostly of stones, boulders, and cobbles. Secondary lime is at a depth of 40 to 60 inches from the mineral soil surface.

A horizon: The hue is 5YR or 7.5YR; the value is 3 through 5 dry, 2 through 4 moist; and the chroma is 2 through 4. The reaction is neutral.

Bt horizon: The hue is 5YR or 7.5YR; the value is 4 through 6 dry, 3 through 5 moist; and the chroma is 4 through 6. The texture of the fine-earth fraction is clay loam or clay with rock fragment modifiers of extremely bouldery, extremely stony, very stony, or very cobbly. The reaction is neutral or slightly alkaline.

Bk horizon: The hue is 5YR or 7.5YR; the value is 5 through 8 dry, 4 through 7 moist; and the chroma is 2 through 4. The calcium carbonate equivalent ranges from 5 to 25 percent.

Dressel Series

The Dressel series consists of very deep, well drained soils on mountain slopes and canyon side slopes. These soils formed in colluvium and slope alluvium derived from sandstone and shale. The slopes range from 30 to 80 percent. The elevation ranges from 7,600 to 10,500 feet. Average annual precipitation ranges from 25 to 35 inches, and average annual air temperature ranges from 34 to 40 degrees F.

These soils are loamy-skeletal, mixed, superactive Pachic Haplocryolls.

A typical pedon of Dressel gravelly loam is in an area of Dressel-Jersey complex, 30 to 80 percent slopes, located about 1,300 feet west and 2,200 feet north of the southeast corner of sec. 20, T. 39 N., R. 12 W.:

Oi—0 to 2 inches; slightly decomposed twigs, leaves, and roots.

A1—2 to 8 inches; very dark grayish brown (10YR 3/2) gravelly loam, black (10YR 2/1) moist; weak very fine granular structure; soft very friable, nonsticky and slightly plastic; many very fine and fine, and few medium root; many very fine continuous pores; 15 percent gravel, 5 percent cobbles, and 5 percent stones; neutral (pH 6.8); clear smooth boundary.

A2—8 to 19 inches; very dark grayish brown (10YR 3/2) very stony loam, black (10YR 2/1) moist; weak fine subangular blocky structure; soft, very friable, slightly sticky and slightly plastic; common very fine and fine, and few medium roots; many very fine discontinuous pores; 10 percent gravel, 20 percent cobbles, and 25 percent stones; neutral (pH 6.6); clear wavy boundary.

E—19 to 23 inches; light gray (10YR 7/2) very cobbly sandy clay loam, yellowish brown (10YR 5/4) moist; common fine faint yellowish brown (10YR 5/6) lithochromic mottles; moderate medium subangular blocky structure; slightly hard, very friable, slightly sticky and plastic; few very fine, fine, and coarse roots; many very fine discontinuous pores; 10 percent gravel, 35 percent cobbles, and 10 percent stones; neutral (pH 6.6); clear wavy boundary.

Bw1—23 to 30 inches; light brownish gray (10YR 6/2) very cobbly sandy clay loam, brown (10YR 4/3) moist; moderate medium subangular blocky structure; hard,

friable, slightly sticky and plastic; few very fine, fine, medium and coarse roots; many very fine discontinuous pores; 10 percent gravel, 30 percent cobbles, and 15 percent stones; neutral (pH 6.8); clear wavy boundary.

Bw2—30 to 36 inches; light brownish gray (10YR 6/2) extremely cobbly loam, brown (10YR 4/3) moist; moderate medium subangular blocky structure; hard, friable, slightly sticky and plastic; few very fine, fine, medium and coarse roots; many very fine discontinuous pores; 15 percent gravel, 40 percent cobbles, and 15 percent stones; neutral (pH 6.8); clear wavy boundary.

Bw3—36 to 45 inches; light gray (10YR 7/2) extremely cobbly loam, brown (10YR 4/3) moist; common fine distinct yellowish brown (10YR 5/6) lithochromic mottles; moderate medium subangular blocky structure parting to moderate fine subangular blocky; hard, friable, nonsticky and slightly plastic; few very fine, fine and medium roots; many very fine discontinuous pores; 15 percent gravel, 45 percent cobbles, and 10 percent stones; neutral (pH 6.6); gradual wavy boundary.

C1—45 to 53 inches; light gray (10YR 7/1) extremely cobbly loam, very dark grayish brown (10YR 4/2) moist; few fine faint yellowish brown (10YR 5/6) lithochromic mottles; massive; hard, firm, slightly sticky and plastic; few fine roots; common very fine discontinuous pores; 20 percent gravel, 35 percent cobbles, and 15 percent stones; neutral (pH 6.6); gradual wavy boundary.

C2—53 to 62 inches; light brownish gray (10YR 6/2) very cobbly loam, light brownish gray (10YR 5/2) moist; few fine faint brownish yellow (10YR 6/6) lithochromic mottles; massive; hard, firm, sticky and plastic; 10 percent gravel, 30 percent cobbles, and 15 percent stones; neutral (pH 6.8).

The mollic epipedon is 16 to 30 inches thick. The particle-size control section has 20 to 30 percent clay and 35 to 70 percent sandstone rock fragments. The reaction is slightly acid or neutral.

A horizon: The hue is 10YR; the value is 3 through 5 dry, 2 or 3 moist; and the chroma is 1 or 2. The texture is gravelly loam or very stony loam. The reaction is slightly acid or neutral.

E horizon (when present): The hue is 10YR; the value is 6 or 7 dry, 5 or 6 moist; and the chroma is 2 through 4. The reaction is slightly acid or neutral.

Bw horizons: The hue is 10YR; the value is 5 through 7 dry, 4 or 5 moist; and the chroma is 2 through 4. The texture of the fine-earth fraction is sandy clay loam, clay loam, or loam with rock fragment modifiers of very cobbly or extremely cobbly. The reaction is slightly acid or neutral.

C horizon: The hue is 2.5Y through 10YR. The texture of the fine-earth fraction typically is loam or clay loam. The particle-size control section has 35 to 75 percent sandstone rock fragments.

Dystrocryepts

Dystrocryepts consists of very shallow to very deep, well drained soils on high mesas and mountain slopes. These soils formed in residuum derived mostly from granite. The slopes range from 15 to 30 percent. The elevation ranges from 11,000 to 13,000 feet. The average annual precipitation ranges from 35 to 45 inches. The average annual air temperature ranges from 28 to 35 degrees F.

These soils are Dystrocryepts.

A reference pedon of Lithic Dystrocryepts is in an area of Dystrocryepts-Rock outcrop, igneous complex, 15 to 30 percent slopes, located about 1,500 feet south and 2,300 feet east of the northwest corner of sec. 11, T. 37 N., R. 7 W.:

A1—0 to 1 inch; brown (7.5YR 5/4) gravelly sandy clay loam, dark brown (7.5YR 3/2) moist; moderate very fine granular structure that parts to single grained; loose,

friable, nonsticky and nonplastic; 15 percent gravel; very strongly acid (pH 5.0); abrupt smooth boundary.

A2—1 inch to 9 inches; light brown (7.5YR 6/4) gravelly sandy clay loam, dark brown (7.5YR 3/4) moist; weak moderate blocky structure that parts to moderate fine and medium granular; slightly hard, friable, nonsticky and nonplastic; 15 percent gravel; very strongly acid (pH 4.8); clear wavy boundary.

Bw—9 to 17 inches; light brown (7.5YR 6/4) gravelly sandy clay loam, brown (7.5YR 4/4) moist; weak coarse blocky structure that parts to moderate medium subangular blocky; hard, friable, nonsticky and nonplastic; 15 percent gravel; very strongly acid (pH 5.0); abrupt wavy boundary.

R—17 inches; granite bedrock.

Bedrock is at a depth of 8 to 60 inches or more. The particle-size control section has 15 to 35 percent rock fragments, most of which are gravel of granitic origin.

A horizon: The hue is 7.5YR or 10YR; the value is 5 or 6 dry, 3 or 4 moist; and the chroma is 2 through 6. The reaction is very strongly acid.

Bw horizon: The hue is 7.5YR or 10YR; the value is 5 or 6 dry, 4 or 5 moist; and the chroma is 4 through 6. The reaction is very strongly acid.

Endoaquolls

Endoaquolls consist of very deep, poorly drained soils on flood plains and in drainageways. These soils formed in alluvium derived from igneous and sedimentary rocks and mixed sources. The slopes range from 0 to 5 percent. The elevation ranges from 7,100 to 8,500 feet. Average annual precipitation ranges from 18 to 22 inches, and average annual air temperature ranges from 43 to 47 degrees F.

These soils are Endoaquolls.

A reference pedon of Endoaquolls is in an area of Endoaquolls-Ustifluvents complex, 0 to 5 percent slopes, located about 1,850 feet north and 1,750 feet east of the southwest corner of sec. 18, T. 40 N., R. 12 W.:

A1—0 to 4 inches; grayish brown (10YR 5/2) loam, very dark brown (10YR 2/2) moist; weak fine subangular blocky structure parting to weak fine granular; slightly hard, friable, nonsticky and slightly plastic; many very fine, common fine, and few coarse and medium roots; many very fine and common fine pores; slightly effervescent; slightly alkaline (pH 7.4); clear wavy boundary.

A2—4 to 12 inches; brown (10YR 5/3) fine sandy loam, very dark grayish brown (10YR 3/2) moist; weak medium subangular blocky structure; slightly hard, very friable, nonsticky and nonplastic; many very fine, common fine, and few coarse and medium roots; many very fine, and common fine pores; slightly alkaline (pH 7.4); abrupt smooth boundary.

A3—12 to 14 inches; brown (10YR 5/3) fine sandy loam, very dark grayish brown (10YR 3/2) moist; massive; slightly hard, very friable, nonsticky and nonplastic; common very fine, few fine and medium roots; many very fine pores; common small distinct (7.5YR 5/6) masses of iron concentrations; neutral (pH 7.2); clear smooth boundary.

A4—14 to 19 inches; brown (10YR 4/3) loam, very dark brown (10YR 2/2) moist; weak medium subangular blocky structure; slightly hard, very friable, nonsticky and nonplastic; common very fine, few fine and medium roots; common very fine pores; common medium distinct (7.5YR 5/6) masses of iron concentrations; neutral (pH 7.2); gradual wavy boundary.

A5—19 to 28 inches; brown (10YR 5/3) loam, dark brown (10YR 3/3) moist; massive; slightly hard, friable, slightly sticky and slightly plastic; few very fine and fine roots; few very fine and fine pores; strongly effervescent; many large distinct strong

brown (7.5YR 5/6) masses of iron concentrations; slightly alkaline (pH 7.6); abrupt smooth boundary.

2C—28 to 60 inches; dark yellowish brown (10YR 4/4) extremely cobbly sand, dark yellowish brown (10YR 4/4) moist; single grained; loose, loose, nonsticky and nonplastic; few coarse roots; 35 percent gravel, 20 percent cobbles, and 10 percent stones; strongly effervescent; many large distinct strong brown (7.5YR 5/6) masses of iron concentrations; slightly alkaline (pH 7.8).

The mollic epipedon is 10 to 36 inches thick. The particle-size control section has 15 to 25 percent clay above the cobbly 2C horizon, 0 to 10 percent rock fragments above the 2C horizon, and 65 to 80 percent rock fragments in the 2C horizon. The depth to the 2C horizon ranges from 20 to 40 inches. Many pedons lack carbonates throughout. A seasonal high water table usually is at a depth of 6 to 18 inches in May and June, and is subject to long periods of flooding in the spring.

A1, A1, and A3 horizons: The hue is 7.5YR or 10YR; the value is 4 or 5 dry, 2 or 3 moist; and the chroma is 1 through 3. The particle-size control section has 0 to 10 percent rock fragments. The reaction is neutral or slightly alkaline.

A4 and A5 horizons: The hue is 5YR through 10YR; the value is 4 through 6 dry, 2 through 4 moist; and the chroma is 2 through 4. The particle-size control section has 0 to 10 percent rock fragments. The reaction is neutral or slightly alkaline.

2C horizon: The hue is 10YR. The particle-size control section has 65 to 80 percent rock fragments, most of which are cobbles, gravel, and sand.

Fardraw Series

The Fardraw series consists of very deep, well drained soils on structural benches and mesas. These soils formed in outwash and till derived from mixed sources. The slopes range from 3 to 15 percent. The elevation ranges from 8,000 to 9,000 feet. The average annual precipitation ranges from 20 to 26 inches. The average annual air temperature ranges from 40 to 44 degrees F.

These soils are clayey-skeletal, smectitic, frigid Typic Argiustolls.

A typical pedon of Fardraw loam, 3 to 15 percent slopes, stony, is located in Dolores County about 30 miles north of Dolores, Colorado, along Benchmark Tower road, about 1,000 feet north and 400 feet west of the southeast corner of sec. 10, T. 40 N., R. 16 W.:

A1—0 to 8 inches; very dark gray (10YR 3/1) loam, black (10YR 2/1) moist; moderate fine granular structure; soft, friable, slightly sticky and slightly plastic; 5 percent gravel, 1 percent cobbles, and 1 percent stones, moderate fine and very fine roots; neutral (pH 6.8); clear smooth boundary.

A2—8 to 11 inches; dark grayish brown (10YR 4/2) loam, very dark grayish brown (10YR 3/2) moist; weak fine subangular blocky structure; slightly hard, friable, slightly sticky and slightly plastic; 10 percent gravel and 1 percent cobbles; moderate fine roots; neutral (pH 6.8); clear wavy boundary.

Bt1—11 to 15 inches; brown (7.5YR 4/4) very gravelly clay loam, dark brown (7.5YR 3/2) moist; moderate medium subangular blocky structure; hard, firm, sticky and plastic; few faint clay films on ped faces and in pores; 35 percent gravel, 3 percent cobbles, and 1 percent stones; neutral (pH 6.8); clear wavy boundary.

Bt2—15 to 29 inches; light brown (7.5YR 6/4) very cobbly sandy clay; brown (7.5YR 4/4) moist; moderate medium subangular blocky structure; hard, firm, sticky and plastic; many prominent clay films on ped faces; 25 percent gravel, 20 percent cobbles, 15 percent stones, and 1 percent boulders; slightly acid (pH 6.4); gradual wavy boundary.

Bt3—29 to 51 inches; light brown (7.5YR 6/4) very cobbly sandy clay, brown (7.5YR 4/4) moist; weak medium subangular blocky structure; very hard, friable, very

sticky and very plastic; many prominent clay films on ped faces; 25 percent gravel, 15 percent cobbles, 15 percent stones, and 1 percent boulders; slightly acid (pH 6.4); gradual wavy boundary.

C—51 to 60 inches; reddish yellow (7.5YR 6/6) very cobbly sandy clay, brown (7.5YR 4/4) sandy clay; massive, very hard, friable, very sticky and very plastic; 25 percent gravel, 20 percent cobbles, 15 percent stones, and 1 percent boulders; slightly acid (pH 6.4).

The mollic epipedon ranges from 10 to 16 inches thick. The particle-size control section has 35 to 70 percent rock fragments, which consist mostly of rounded, water-worn fragments of granitic and volcanic origin.

A horizon: The hue is 7.5YR or 10YR; the value is 3 through 5 dry, 1 through 3 moist; and the chroma is 1 through 3. The reaction is slightly acid or neutral.

Bt horizon: The hue is 7.5YR or 10YR; the value is 4 through 6 dry, 3 through 5 moist; and the chroma is 2 through 5. The texture of the fine-earth fraction typically is sandy clay, clay, or clay loam. The particle-size control section has 35 to 50 percent clay, 30 to 60 percent sand, and 5 to 30 percent silt. The reaction is slightly acid or neutral.

C horizon: The hue is 2.5Y through 7.5YR.

Fivepine Series

The Fivepine series consists of shallow, well drained soils on mesas and hills. These soils formed in residuum and slope alluvium derived from sandstone. The slopes range from 0 to 15 percent. The elevation ranges from 7,100 to 8,500 feet. Average annual precipitation ranges from 15 to 20 inches, and average annual air temperature ranges from 41 to 45 degrees F.

These soils are clayey, smectitic, frigid Lithic Argiustolls.

A typical pedon of Fivepine flaggy loam is in an area of Fivepine-Nortez complex, 0 to 15 percent slopes, located about 620 feet south and 100 feet east of the northwest corner of sec. 33, T. 42 N., R. 17 W.:

A—0 to 3 inches; reddish brown (5YR 4/3) flaggy loam, dark reddish brown (5YR 3/2) moist; moderate medium granular structure; slightly hard, friable, slightly sticky and slightly plastic; 5 percent gravel, 5 percent cobbles, and 20 percent flagstones; neutral (pH 6.6); clear smooth boundary.

BA—3 to 9 inches; reddish brown (5YR 4/3) flaggy clay loam, dark reddish brown (5YR 3/3) moist; moderate medium subangular blocky structure parting to moderate fine subangular blocky; hard, firm, sticky and plastic; 5 percent gravel, 5 percent cobbles, and 20 percent flagstones; neutral (pH 6.6); clear wavy boundary.

Bt1—9 to 12 inches; reddish brown (5YR 4/4) flaggy clay loam, reddish brown (5YR 4/3) moist; strong medium subangular blocky structure; very hard, very firm, sticky and plastic; common distinct clay films on faces of peds; 5 percent gravel, 5 percent cobbles, and 20 percent flagstones; neutral (pH 6.6); clear smooth boundary.

Bt2—12 to 15 inches; yellowish red (5YR 4/6) flaggy clay, reddish brown (5YR 4/3) moist; strong medium subangular blocky structure; extremely hard, very firm, very sticky and very plastic; many prominent clay films on the faces of peds; 5 percent gravel, 5 percent cobbles, and 20 percent flagstones; common manganese concretions; neutral (pH 6.6); abrupt smooth boundary.

R—15 inches; fractured Dakota sandstone, weathered in the upper part.

Depth to bedrock ranges from 10 to 20 inches. The particle-size control section has 35 to 50 percent clay and 15 to 35 percent sandstone rock fragments. The reaction is slightly acid through slightly alkaline.

A horizon: The hue is 5YR through 10YR; the value is 4 or 5 dry, 2 or 3 moist; and the chroma is 1 through 3.

Bt horizon: The hue is 5YR or 7.5YR; the value is 3 through 6 dry, 3 through 5 moist; and the chroma is 3 through 6. The texture of the fine-earth fraction is clay loam or clay.

Fluvaquents

Fluvaquents consist of very deep, somewhat poorly drained soils on flood plains and in drainageways. These soils formed in alluvium derived from mixed sources. The slopes range from 0 to 5 percent. The elevation ranges from 5,800 to 7,400 feet. Average annual precipitation ranges from 13 to 20 inches, and average annual air temperature ranges from 47 to 52 degrees F.

These soils are Fluvaquents.

A reference pedon of Fluvaquents is in an area of Fluvaquents-Haplustolls complex, 0 to 5 percent slopes, located about 1,900 feet north and 1,050 feet west of the southeast corner of sec. 16, T. 39 N., R. 17 W.:

- A—0 to 6 inches; light yellowish brown (10YR 6/4) sand, dark yellowish brown (10YR 3/4) moist; single grained; loose, loose, nonsticky and nonplastic; many very fine and common fine roots; many very fine interstitial pores; slightly effervescent; slightly alkaline (pH 7.4); clear smooth boundary.
- C1—6 to 20 inches; yellowish brown (10YR 5/4) sandy loam, dark yellowish brown (10YR 3/4) moist; single grained; loose, loose, nonsticky and nonplastic; common very fine and fine roots; many very fine interstitial pores; slightly effervescent; 5 percent gravel; common medium irregular prominent yellowish brown (10YR 5/8) masses of iron concentrations; slightly alkaline (pH 7.6); clear smooth boundary.
- C2—20 to 35 inches; yellowish brown (10YR 5/4) loamy fine sand, dark yellowish brown (10YR 3/4) moist; single grained; soft, very friable, nonsticky and nonplastic; few very fine and fine roots; common very fine interstitial pores; slightly effervescent; many large irregular prominent yellowish brown (10YR 5/8) masses of iron concentrations; slightly alkaline (pH 7.6); clear wavy boundary.
- C3—35 to 60 inches; yellowish brown (10YR 5/4) very gravelly loamy sand, dark yellowish brown (10YR 3/4) moist; single grained; loose, loose, nonsticky and nonplastic; few very fine and fine roots; common very fine interstitial pores; slightly effervescent; 40 percent gravel, 10 percent cobbles, and 5 percent stones; many large irregular prominent (10YR 5/8) masses of iron concentrations; slightly alkaline (pH 7.5).

A high water table usually is at a depth of 12 to 24 inches in May and June. The particle-size control section has 0 to 60 percent rock fragments.

Iron concentrations occur throughout the control section. The reaction is neutral to slightly alkaline

A horizon: The hue is 7.5YR or 10YR; the value is 5 through 7 dry, 3 through 6 moist; and the chroma is 2 through 4. The texture is variable, ranging from sand to clay loam with varying amounts of gravel.

C horizon: The hue is 7.5YR or 10YR; the value is 4 through 7 dry, 3 through 6 moist; and the chroma is 2 through 6. The texture is variable, ranging from sand to sandy loam with varying amounts of gravel, cobbles, and stones. The layers typically are stratified.

Flygare Series

The Flygare series consists of very deep, well drained soils on mesas, structural benches and mountain slopes. These soils formed in alluvium and slope alluvium

derived dominantly from diorite. The slopes range from 0 to 30 percent. The elevation ranges from 8,500 to 10,000 feet. Average annual precipitation ranges from 25 to 30 inches, and average annual air temperature ranges from 34 to 40 degrees F.

These soils are loamy-skeletal, mixed, superactive Pachic Palecryolls.

A typical pedon of Flygare gravelly loam is in an area of Flygare-Foidel complex, 0 to 15 percent slopes, located about 2,100 feet north and 1,000 feet west of the southeast corner of sec. 9, T. 37 N., R. 12 W.:

Oe—0 to 1 inch; intermediately decomposed twigs and roots.

A1—1 inch to 5 inches; dark grayish brown (10YR 4/2) gravelly loam, black (10YR 2/1) moist; weak fine subangular blocky structure parting to weak fine granular; soft, very friable, nonsticky and slightly plastic; many very fine and fine, few medium roots; many very fine continuous vertical pores; 15 percent gravel and 5 percent cobbles; neutral (pH 7.0); clear smooth boundary.

A2—5 to 9 inches; very dark grayish brown (10YR 3/2) cobbly loam, black (10YR 2/1) moist; weak fine subangular blocky structure parting to weak fine granular; soft, very friable, nonsticky and slightly plastic; many very fine and fine, few medium and coarse roots; many very fine continuous vertical pores; 15 percent gravel and 15 percent cobbles; neutral (pH 7.0); gradual wavy boundary.

A3—9 to 18 inches; dark grayish brown (10YR 4/2) extremely stony loam, black (10YR 2/1) moist; moderate fine subangular block structure parting to weak fine granular; soft, very friable, nonsticky and slightly plastic; common very fine and fine, few medium roots; many very fine continuous vertical pores; 20 percent gravel, 25 percent cobbles, and 20 percent stones; neutral (pH 6.8); diffuse wavy boundary.

A4—18 to 23 inches; brown (10YR 5/3) extremely stony loam, very dark grayish brown (10YR 3/2) moist; weak fine subangular blocky structure parting to weak fine granular; soft, very friable, nonsticky and slightly plastic; common fine and few medium roots; many very fine continuous vertical pores; 15 percent gravel, 30 percent cobbles, and 25 percent stones; neutral (pH 6.8); gradual wavy boundary.

E—23 to 28 inches; light yellowish brown (10YR 6/4) very cobbly loam, brown (7.5YR 4/4) moist; moderate medium subangular blocky structure parting to weak fine subangular blocky; very hard, friable, nonsticky and slightly plastic; common very fine and fine roots; common very fine continuous vertical pores; 20 percent gravel, 30 percent cobbles, and 5 percent stones; neutral (pH 7.0); gradual wavy boundary.

Bt1—28 to 38 inches; light yellowish brown (10YR 6/4) very cobbly clay loam, brown (7.5YR 4/4) moist; moderate fine to medium subangular blocky structure; hard, friable, nonsticky and plastic; few very fine and fine roots; few very fine continuous vertical pores; many distinct clay films on faces of peds and as bridges holding mineral grains together; 20 percent gravel, 30 percent cobbles, and 5 percent stones; neutral (pH 6.8); clear wavy boundary.

Bt2—38 to 47 inches; light brown (7.5YR 6/4) extremely cobbly clay loam, strong brown (7.5YR 4/6) moist; moderate medium subangular blocky structure parting to moderate fine subangular blocky; very hard, very firm, sticky and plastic; few fine roots; common very fine continuous vertical pores; many distinct clay films on faces of peds and as bridges holding mineral grains together; 20 percent gravel, 35 percent cobbles, and 15 percent stones; neutral (pH 7.0); gradual wavy boundary.

Bt3—47 to 55 inches; light brown (7.5YR 6/4) extremely cobbly clay loam, brown (7.5YR 4/4) moist; moderate medium subangular blocky structure; very hard, very firm, slightly sticky and plastic; few fine roots; common very fine continuous vertical pores; many distinct clay films on faces of peds and as bridges holding

mineral grains together; 20 percent gravel, 40 percent cobbles, and 20 percent stones; neutral (pH 6.8); clear smooth boundary.

BC—55 to 61 inches; light brown (7.5YR 6/4) extremely cobbly clay loam, brown (7.5YR 4/4) moist; moderate medium subangular blocky structure; slightly hard, firm, sticky and plastic; few fine roots; common very fine continuous vertical pores; many distinct clay films on faces of peds and as bridges holding mineral grains together; 20 percent gravel, 40 percent cobbles, and 20 percent stones; neutral (pH 7.0).

The mollic epipedon is 20 to 30 inches thick. The particle-size control section has 35 to 80 percent rock fragments, most of which are derived from diorite. The reaction is neutral throughout.

A horizons: The hue is 10YR; the value is 3 to 5 dry, 2 or 3 moist; and the chroma is 1 to 3. The particle-size control section has 15 to 35 percent sandstone rock fragments in the A1 and A2 horizons.

E horizon: The hue is 7.5YR or 10YR; the value is 5 or 6 dry, 4 or 5 moist; and the chroma is 4 or 5. The texture is very cobbly loam.

Bt horizon: The hue is 7.5YR or 10YR; the value is 5 or 6 dry, 4 or 5 moist; and the chroma is 3 to 6. The texture is very cobbly clay loam or extremely cobbly clay loam. The particle-size control section has 27 to 35 percent clay.

BC horizon (when present): The hue is 7.5YR or 10YR. The texture is extremely cobbly clay loam.

Foidel Series

The Foidel series consists of very deep, well drained soils on mesas, structural benches, and mountain slopes. These soils formed in alluvium and slope alluvium derived dominantly from diorite. The slopes range from 0 to 30 percent. The elevation ranges from 8,500 to 10,000 feet. Average annual precipitation ranges from 25 to 30 inches, and average annual air temperature ranges from 34 to 40 degrees F.

These soils are fine-loamy, mixed, superactive Pachic Palecryolls.

A typical pedon of Foidel loam is in an area of Flygare-Foidel complex, 0 to 15 percent slopes, located about 800 feet south and 900 feet west of the northeast corner of sec. 4, T. 37 N., R. 12 W.:

A1—0 to 6 inches; very dark grayish brown (10YR 3/2) loam, black (10YR 2/1) moist; weak very fine granular structure; soft, very friable, slightly sticky and plastic; many very fine, common fine, and few medium and coarse roots; many very fine continuous vertical pores; 5 percent gravel; neutral (pH 7.0); clear smooth boundary.

A2—6 to 17 inches; dark grayish brown (10YR 4/2) loam, very dark brown (10YR 2/2) moist; weak fine subangular blocky structure; soft, very friable, slightly sticky and plastic; many very fine and common fine roots; many very fine continuous vertical pores; 5 percent gravel; neutral (pH 6.8); clear smooth boundary.

A3—17 to 26 inches; dark grayish brown (10YR 4/2) loam, very dark brown (10YR 2/2) moist; moderate medium subangular block structure parting to weak fine subangular blocky; soft, very friable, slightly sticky and plastic; common medium and few coarse roots; common very fine continuous vertical pores; 10 percent gravel; neutral (pH 6.8); gradual wavy boundary.

A4—26 to 32 inches; dark grayish brown (10YR 4/2) loam, very dark brown (10YR 2/2) moist; weak fine subangular blocky structure; soft, very friable, slightly sticky and plastic; common fine and few medium roots; few very fine continuous vertical pores; 10 percent gravel; neutral (pH 6.8); gradual wavy boundary.

EBt—32 to 38 inches; pale brown (10YR 6/3) gravelly loam, dark yellowish brown (10YR 4/4) moist; weak fine subangular blocky structure; slightly hard, very

friable, slightly sticky and plastic; few very fine and medium, and common fine roots; common very fine continuous vertical pores; few thin clay films on faces of peds and as bridges holding mineral grains together; 20 percent gravel; neutral (pH 6.8); diffuse wavy boundary.

B/E—38 to 45 inches; (60 percent B) pink (7.5YR 7/4) clay loam, brown (7.5YR 5/4) moist, and (40 percent E) very pale brown (10YR 7/3) loam, dark yellowish brown (10YR 4/4) moist; many medium distinct brown (7.5YR 4/4) lithochromic mottles; moderate medium subangular blocky structure; slightly hard, very friable, slightly sticky and plastic; few very fine roots; many very fine continuous vertical pores; many prominent clay films on faces of peds and as bridges holding mineral grains together; 10 percent gravel; neutral (pH 6.6); gradual wavy boundary.

Bt1—45 to 56 inches; pink (7.5YR 7/4) gravelly clay loam, brown (7.5YR 5/4) moist; few fine faint brownish yellow (10YR 6/6) mottles; moderate coarse subangular blocky structure; hard, friable, sticky and plastic; few fine roots; common very fine continuous vertical pores; many prominent clay films on faces of peds and as bridges holding mineral grains together; 15 percent gravel and 5 percent cobbles; neutral (pH 6.8); abrupt smooth boundary.

Bt2—56 to 60 inches; brown (7.5YR 5/4) gravelly clay loam, strong brown (7.5YR 4/6) moist; few fine faint brownish yellow (10YR 6/6) mottles; moderate medium subangular block structure parting to weak fine subangular blocky; hard, friable, sticky and plastic; common very fine continuous vertical pores; many prominent clay films on faces of peds and as bridges holding mineral grains together; 20 percent gravel and 10 percent cobbles; neutral (pH 7.0).

The mollic epipedon is 20 to 32 inches thick. The particle-size control section has 18 to 35 percent clay and 5 to 30 percent diorite rock fragments. The reaction is neutral throughout.

A horizon: The hue is 7.5YR or 10YR; the value is 3 or 4 dry, 2 or 3 moist; and the chroma is 1 or 2.

EBt horizon:

The hue is 7.5YR or 10YR; the value is 5 through 7 dry, 3 through 5 moist; and the chroma is 2 through 4.

B/E horizon: The hue is 7.5YR or 10YR

B part: The value is 5 to 7 dry, 4 or 5 moist; and the chroma is 4 through 6. The texture is clay loam or sandy clay loam.

E part: The value is 6 or 7 dry, 4 or 5 moist; and the chroma is 3 or 4. The texture is loam or sandy clay loam.

Bt horizon: The hue is 7.5YR or 10YR; the value is 5 through 7 dry, 4 or 5 moist; and the chroma is 4 through 6. The texture of the fine-earth fraction typically is clay loam or sandy clay loam.

Fortlewis Series

The Fortlewis series consists of moderately deep, well drained soils on mountain slopes. These soils formed in slope alluvium derived mostly from sandstone and shale. The slopes range from 3 to 25 percent. The elevation ranges from 7,500 to 8,500 feet. The average annual precipitation ranges from 18 to 22 inches. The average annual air temperature ranges from 41 to 45 degrees F.

These soils are fine, smectitic, frigid Typic Haplustalfs.

A typical pedon of Fortlewis stony fine sandy loam, 3 to 12 percent slopes, is located along Junction Creek road, about 2,200 feet south and 1,300 feet east of the northwest corner of sec. 25, T. 36 N., R. 10 W.:

Oi—0 to 1 inch; organic layer of partly decayed needles, leaves and roots.

A—1 inch to 4 inches; brown (7.5YR 5/2) stony fine sandy loam, dark brown (7.5YR 3/2) moist; weak fine granular structure; soft, very friable, nonsticky and

nonplastic; 5 percent gravel, 10 percent cobbles, and 15 percent stones; slightly acid (pH 6.3); clear smooth boundary.

E—4 to 12 inches; pinkish gray (7.5YR 7/2) stony fine sandy loam, brown (7.5YR 5/2) moist; weak fine granular structure; soft, very friable, nonsticky and nonplastic; 5 percent gravel, 10 percent cobbles, and 15 percent stones; slightly acid (pH 6.2); clear wavy boundary.

B/E—12 to 17 inches; (70 percent B) reddish brown (5YR 5/4) clay loam, reddish brown (5YR 4/4) moist, and (30 percent E) light brown (7.5YR 6/4) sandy clay loam, brown (7.5YR 5/4) moist; moderate medium subangular blocky structure; hard, firm, sticky and plastic; few faint clay films on faces of peds of the B part; 5 percent gravel, 5 percent cobbles, and 3 percent stones; slightly acid (pH 6.2); gradual wavy boundary.

Bt1—17 to 27 inches; light reddish brown (5YR 6/4) clay, reddish brown (5YR 4/4) moist; moderate medium subangular blocky and angular blocky structure; very hard, very firm, very sticky and very plastic; many prominent clay films on faces of peds; 5 percent gravel, 5 percent cobbles, and 2 percent stones; slightly acid (pH 6.3); gradual wavy boundary.

Bt2—27 to 39 inches; reddish yellow (5YR 6/6) clay, yellowish red (5YR 4/6) moist; strong medium subangular blocky and angular blocky structure; very hard, very firm, very sticky and very plastic; many prominent clay films on faces of peds; 5 percent gravel and 5 percent cobbles; slightly acid (pH 6.3); abrupt wavy boundary.

R—39 inches; sandstone bedrock, fractured in the upper few inches.

The depth to bedrock ranges from 20 to 40 inches from the mineral soil surface. The particle-size control section has 35 to 45 percent clay and 5 to 35 percent rock fragments.

A horizon (when present): The hue is 5YR or 7.5YR; the value is 5 or 6 dry, 2 or 3 moist; and the chroma is 2 or 3. The reaction is slightly acid or neutral.

E horizon: The hue is 5YR or 7.5YR; the value is 5 through 7 dry, 4 or 5 moist; and the chroma is 2 through 4. The particle-size control section has 15 to 35 percent rock fragments. The reaction is slightly acid or neutral.

B/E horizon:

B part: The hue is 2.5YR or 5YR; the value is 4 through 6 dry, 4 or 5 moist; and the chroma is 3 through 6. The texture of the fine-earth fraction is sandy clay loam or clay loam with stony rock fragment modifiers in some pedons.

E part: The hue is 5YR or 7.5YR; the value is 5 through 7 dry, 4 or 5 moist; and the chroma is 2 through 4. The texture of the fine-earth fraction is fine sandy loam or sandy clay loam, with stony rock modifiers in some pedons. The reaction is slightly acid or neutral.

Bt horizon: The hue is 2.5YR or 5YR; the value is 4 through 6 dry, 4 or 5 moist; and the chroma is 3 through 6. The texture of the fine-earth fraction typically is sandy clay, clay, or clay loam, with stony rock fragment modifiers in some pedons. The reaction is slightly acid or neutral.

Frisko Series

The Frisko series consists of very deep, well drained soils on mountain slopes and mesas. These soils formed in till, outwash, colluvium, and slope alluvium derived mostly from granite, volcanic, and sedimentary rocks. The slopes range from 5 to 70 percent. The elevation ranges from 8,000 to 11,500 feet. The average annual precipitation ranges from 25 to 45 inches. The average annual air temperature ranges from 32 to 38 degrees F.

These soils are loamy-skeletal, mixed, superactive Eutric Haplocryalfs.

A typical pedon of Frisco loam, 25 to 45 percent slopes, is located along an unused logging road, in the southwest quarter of the northwest quarter of sec. 2, T. 37 N., R. 6 W.:

- Oi—0 to 2 inches; organic mat of decomposing twigs, needles and bark.
- A—2 to 5 inches; brown (7.5YR 5/2) loam, brown (7.5YR 4/2) moist; moderate fine granular structure; slightly hard, very friable, nonsticky and nonplastic; 5 percent gravel and 6 percent cobbles; neutral (pH 6.6); clear smooth boundary.
- E1—5 to 11 inches; light brown (7.5YR 6/3) loam, brown (7.5YR 4/3) moist; moderate fine subangular blocky structure that parts to moderate fine granular; slightly hard, very friable, nonsticky and nonplastic; 9 percent gravel, 2 percent cobbles, and 3 percent stones; neutral (pH 6.6); gradual wavy boundary.
- E2—11 to 19 inches; brown (7.5YR 5/3) cobbly loam, brown (7.5YR 4/3) moist; moderate medium subangular blocky structure that parts to moderate fine granular; soft, very friable, slightly sticky and slightly plastic; 10 percent gravel, 10 percent cobbles, and 3 percent stones; moderately acid (pH 5.8) clear smooth boundary.
- Bt1—19 to 48 inches; brown (7.5YR 5/3) extremely stony sandy clay loam, brown (7.5YR 4/4) moist; moderate medium subangular blocky structure that parts to moderate fine granular; slightly hard, very friable, slightly sticky and slightly plastic; few distinct clay films on faces of peds; 10 percent gravel, 20 percent cobbles, and 40 percent stones; moderately acid (pH 5.6); clear smooth boundary.
- Bt2—48 to 62 inches; brown (7.5YR 5/3) extremely stony loam, brown (7.5YR 4/2) moist; moderate medium subangular blocky structure; slightly hard, friable, slightly sticky and slightly plastic; few distinct clay films on faces of peds; 20 percent gravel, 20 percent cobbles, and 30 percent stones; neutral (pH 6.8).

Many pedons do not have an A horizon. The particle-size control section has 18 to 35 percent clay and 35 to 70 percent rock fragments, most of which are of granitic and volcanic origin.

A horizon (when present): The hue is 7.5YR or 10YR; the value is 5 or 6 dry, 4 or 5 moist; and the chroma is 2 or 3.

E horizon: The hue is 7.5YR or 10YR; the value is 5 through 7 dry, 4 through 6 moist; and the chroma is 2 through 4. The texture of the fine-earth fraction typically is loam, cobbly loam, or stony loam. The reaction is moderately acid to neutral.

Bt horizon: The hue is 2.5Y through 7.5YR; the value is 5 or 6 dry, 4 or 5 moist; and the chroma is 2 through 6. The texture of the fine-earth fraction typically is sandy clay loam, clay loam, or loam with rock fragment modifiers. The particle-size control section has 18 to 35 percent clay. The reaction is moderately acid to neutral.

Fughes Series

The Fughes series consists of very deep, well drained soils on mesas, hills, mountain slopes, and in drainageways. These soils formed in alluvium, slope alluvium, and colluvium derived dominantly from sedimentary rocks and quartz diorite. The slopes range from 0 to 60 percent. The elevation ranges from 7,100 to 9,000 feet. Average annual precipitation ranges from 15 to 25 inches, and average annual air temperature ranges from 40 to 46 degrees F.

These soils are fine, smectitic, frigid Pachic Argiustolls.

A typical pedon of Fughes loam is in an area of Granath-Fughes complex, 0 to 15 percent slopes, located about 2,200 feet east and 650 feet south of the northwest corner of sec. 25, T. 41 N., R. 17 W.:

- Oi—0 to 1 inch; slightly decomposed needles and twigs; abrupt smooth boundary.
- A—1 inch to 3 inches; dark brown (7.5YR 3/2) loam, dark brown (7.5YR 3/2) moist;

weak medium subangular blocky structure parting to weak fine granular; soft, very friable, nonsticky and nonplastic; 5 percent gravel; neutral (pH 6.6); clear smooth boundary.

AB—3 to 8 inches; dark brown (7.5YR 3/2) loam, dark brown (7.5YR 3/2) moist; moderate medium subangular blocky structure; hard, friable, slightly sticky and slightly plastic; 5 percent gravel; slightly acid (pH 6.4); gradual wavy boundary.

Bt1—8 to 18 inches; brown (7.5YR 4/2) clay loam, dark brown (7.5YR 3/2) moist; strong coarse subangular blocky structure; hard, friable, sticky and plastic; few distinct clay films on faces of peds; 5 percent gravel; neutral (pH 6.6); gradual wavy boundary.

Bt2—18 to 27 inches; brown (7.5YR 4/2) clay loam, dark brown (7.5YR 3/2) moist; strong coarse subangular blocky structure; very hard, firm, sticky and plastic; many prominent clay films on faces of peds; 5 percent gravel; neutral (pH 6.6); clear wavy boundary.

Bt3—27 to 35 inches; brown (7.5YR 5/4) clay, dark brown (7.5YR 3/2) moist; strong medium subangular blocky structure; extremely hard, very firm, very sticky and very plastic; many prominent clay films on faces of peds; 10 percent gravel and 5 percent cobbles; neutral (pH 6.6); clear wavy boundary.

Bt4—35 to 45 inches; brown (7.5YR 5/4) clay, brown (7.5YR 4/4) moist; strong medium prismatic structure parting to strong medium angular blocky; extremely hard, very firm, very sticky and very plastic; few prominent clay films on ped faces; neutral (pH 6.7); gradual wavy boundary.

C—45 to 61 inches; strong brown (7.5YR 5/6) clay, brown (7.5YR 5/4) moist; massive; extremely hard, very firm, very sticky and very plastic; neutral (pH 7.2).

The mollic epipedon is 16 to 40 inches thick. The particle-size control section has 0 to 15 percent rock fragments, which increase to 0 to 35 percent in the lower part of the profile. Some pedons have a BC horizon. Surface textures are modified with rock fragments in some map units.

A horizon: The hue is 5YR through 10YR; the value is 3 through 5 dry, 2 or 3 moist; and the chroma is 1 through 3. The reaction is slightly acid or neutral.

Bt horizon: The hue is 5YR through 10YR; the value is 4 through 6 dry, 3 through 5 moist; and the chroma is 2 through 6. The particle-size control section has 35 to 50 percent clay. The texture is clay, clay loam, or silty clay loam. The reaction is slightly acid or neutral.

C horizon: The hue is 5YR through 10YR. The reaction is slightly acid or neutral.

Gladlow Series

The Gladlow series consists of very deep, well drained soils on mountain slopes and mesas. These soils formed in slope alluvium or colluvium derived dominantly from shale. The slopes range from 3 to 30 percent. The elevation ranges from 7,400 to 8,500 feet. Average annual precipitation ranges from 18 to 20 inches. The average annual air temperature ranges from 40 to 45 degrees F.

These soils are fine, smectitic, frigid Vertic Haplustepts.

A typical pedon of Gladlow clay loam is in an area of Narraguinnep-Gladlow complex, 5 to 30 percent slopes, located about 1,100 feet north and 1,700 feet west of the southeast corner of sec. 32, T. 41 N, R. 16 W.:

A—0 to 5 inches; grayish brown (10YR 5/2) clay loam, brown (10YR 4/3) moist; moderate fine granular structure; slightly hard, friable, sticky and plastic; 5 percent gravel; common fine roots; strongly effervescent; moderately alkaline (pH 8.4); clear, smooth boundary.

Bw—5 to 14 inches; brown (10YR 5/3) silty clay, brown (10YR 4/3) moist; moderate medium subangular blocky structure grading to moderate medium angular blocky;

very hard, very firm, very sticky and very plastic; 1 percent gravel; few fine roots; strongly effervescent; strongly alkaline (pH 8.6); clear smooth boundary.

Bk—14 to 24 inches; brown (10YR 5/3) silty clay, brown (10YR 4/3) moist; moderate fine angular blocky structure grading to moderate fine subangular blocky; very hard, very firm, very sticky and very plastic; 1 percent gravel; violently effervescent; visible carbonates in patches; strongly alkaline (pH 8.8); gradual smooth boundary.

Bky—24 to 31 inches; light brownish gray (10YR 6/2) silty clay, brown (10YR 4/3) moist; weak medium subangular blocky structure; very hard, firm, sticky and plastic; 5 percent shale fragments; violently effervescent; visible lime and gypsum; strongly alkaline (pH 9.0); gradual smooth boundary.

C—31 to 60 inches; variegated colors of gray (10YR 6/1) and pale brown (10YR 6/3) clay loam, dark gray (10YR 4/1) and brown (10YR 4/3) moist; massive; very hard, very firm, very sticky and very plastic; 10 percent shale fragments; violently effervescent; strongly alkaline (pH 8.8); mottling is due to parent material.

The particle-size control section has 35 to 45 percent clay and 1 to 5 percent gravel.

A horizon: The hue is 10YR or 2.5Y; the value is 5 or 6 dry, 4 or 5 moist; and the chroma is 2 through 4. The texture is clay loam or silty clay loam. The reaction is slightly alkaline or moderately alkaline.

Bw horizon: The hue is 10YR or 2.5Y; the value is 5 or 6 dry, 4 or 5 moist; and the chroma is 2 through 4. The texture is silty clay or silty clay loam. The reaction is moderately alkaline or strongly alkaline.

Bk horizon: The hue is 10YR or 2.5Y; the value is 4 through 6 dry, 3 through 5 moist; and the chroma is 2 through 4. The texture is silty clay or silty clay loam. The calcium carbonate equivalent ranges from 5 to 10 percent. The reaction is moderately alkaline or strongly alkaline.

Bky horizon: The hue is 10YR or 2.5Y; the value is 4 through 6 dry, 3 through 5 moist; and the chroma is 2 through 4. The texture is silty clay or silty clay loam. It has 1 to 5 percent gypsum crystals. The calcium carbonate equivalent ranges from 5 to 15 percent. The reaction is moderately alkaline or strongly alkaline.

C horizon: The hue is 10YR or 2.5Y. The reaction is moderately alkaline or strongly alkaline.

Goldbug Series

The Goldbug series consists of very deep, well drained soils on mountain slopes. These soils formed in slope alluvium derived mostly from sandstone and shale. The slopes range from 5 to 30 percent. The elevation ranges from 7,500 to 8,500 feet. The average annual precipitation ranges from 18 to 22 inches. The average annual air temperature ranges from 41 to 45 degrees F.

These soils are fine, smectitic, frigid Typic Haplustalfs.

A typical pedon of Goldbug very stony fine sandy loam, 5 to 30 percent slopes, is located about 600 feet west and 200 feet north of the southeast corner of sec. 36, T. 36 N., R. 9 W.:

Oi—0 to 1 inch; organic layer of needles, leaves and roots.

E1—1 inch to 10 inches; pinkish gray (5YR 6/2) very stony fine sandy loam, dark reddish gray (5YR 4/2) moist; weak fine, granular structure; soft, very friable, nonsticky and nonplastic; 5 percent gravel, 15 percent cobbles, and 30 percent stones; many medium and fine roots; few fine pores; neutral (pH 6.8); clear smooth boundary.

E2—10 to 21 inches; pinkish gray (5YR 7/2) very stony fine sandy loam, pinkish gray (5YR 6/2) moist; weak fine granular structure; soft, very friable, nonsticky and

nonplastic; 5 percent gravel, 20 percent cobbles, and 20 percent stones; many medium and fine roots; few fine pores; neutral (pH 6.6), gradual wavy boundary. B/E—21 to 29 inches; (70 percent B) light reddish brown (5YR 6/4) stony sandy clay loam, reddish brown (5YR 5/4) moist; and (30 percent E) light reddish brown (5YR 6/3) stony fine sandy loam, reddish brown (5YR 5/4) moist; moderate medium subangular blocky structure parting to moderate fine granular; slightly hard, friable, slightly sticky and slightly plastic; few distinct clay films on faces of peds of the B part; 5 percent gravel, 10 percent cobbles, and 15 percent stones; few medium and fine roots; few fine pores; neutral (pH 6.8); clear smooth boundary.

Bt—29 to 61 inches; reddish brown (5YR 5/4) stony clay, reddish brown (5YR 4/4) moist; weak medium prismatic structure that parts to moderate medium angular blocky; very hard, very firm, sticky and plastic; many distinct clay films on faces of peds; 5 percent gravel, 10 percent cobbles, and 10 percent stones; neutral (pH 6.8).

An A horizon is present in some pedons. The particle-size control section has 35 to 50 percent clay and 15 to 35 percent rock fragments.

E horizon: The hue is 2.5YR or 5YR; the value is 5 through 8 dry, 4 through 7 moist; and the chroma is 2 through 4. The texture of the fine-earth fraction is sandy loam or fine sandy loam. The particle-size control section has 30 to 50 percent sandstone rock fragments. The reaction is slightly acid or neutral.

B/E horizon:

B part: The hue is 2.5YR or 5YR; the value is 5 or 6 dry, 4 or 5 moist; and the chroma is 3 through 6. The texture of the fine-earth fraction is sandy clay loam, clay loam, or clay.

E part: The hue is 2.5YR or 5YR; the value is 6 or 7 dry, 5 or 6 moist; and the chroma is 3 or 4 dry, 4 or 5 moist. The texture of the fine-earth fraction is fine sandy loam or sandy loam. The particle-size control section has over 35 percent clay and 15 to 30 percent sandstone rock fragments. The reaction is slightly acid or neutral.

Bt horizon: The hue is 2.5YR or 5YR; the value is 5 or 6 dry, 4 or 5 moist; and the chroma is 3 through 6. The texture of the fine-earth fraction typically is sandy clay, clay, or clay loam. The particle-size control section has 35 to 50 percent clay and 15 to 35 percent sandstone rock fragments. The reaction is slightly acid or neutral.

C horizon (when present): The hue is 2.5YR or 5YR; the value is 5 through 7 dry, 4 through 6 moist; and the chroma is 3 through 6. The particle-size control section has 15 to 60 percent rock fragments. The reaction is slightly acid or neutral.

Granath Series

The Granath series consists of very deep, well drained soils on mesas and hills. These soils formed in eolian material derived from sandstone. The slopes range from 0 to 15 percent. The elevation ranges from 7,100 to 8,500 feet. Average annual precipitation ranges from 15 to 22 inches, and the annual air temperature ranges from 40 to 45 degrees F.

These soils are fine-silty, mixed, superactive, frigid Typic Argiustolls.

A typical pedon of Granath loam is located in an area of Granath-Nortez complex, 0 to 15 percent slopes, about 2,200 feet west and 750 feet south of the northeast corner of sec. 2, T. 39 N., R. 17 W.:

A—0 to 2 inches; brown (7.5YR 4/2) loam, very dark grayish brown (10YR 3/2) moist; weak fine granular structure; soft, very friable, nonsticky and slightly plastic; many very fine and common fine roots; many very fine vesicular and tubular pores; neutral (pH 6.9); clear smooth boundary.

BAt—2 to 10 inches; brown (7.5YR 4/2) loam, dark brown (7.5YR 3/2) moist; weak coarse subangular blocky structure parting to weak medium subangular blocky; slightly hard, friable, sticky and plastic; common fine and few coarse roots; common very fine tubular pores; very few faint clay films on faces of peds; slightly alkaline (pH 7.4); clear wavy boundary.

Bt1—10 to 15 inches; brown (7.5YR 4/4) loam, dark brown (7.5YR 3/2) moist; moderate coarse subangular blocky structure parting to moderate medium subangular blocky; hard, firm, sticky and plastic; common fine and few medium roots; many very fine and medium tubular pores; few distinct clay films on faces of peds; slightly alkaline (pH 7.4); clear wavy boundary.

Bt2—15 to 20 inches; reddish brown (5YR 4/4) loam, reddish brown (5YR 4/3) moist; moderate coarse subangular blocky structure parting to moderate medium subangular blocky; very hard, firm, sticky and plastic; few fine and medium roots; common very fine tubular pores; common distinct clay films on faces of peds; slightly alkaline (pH 7.5); clear wavy boundary.

Bt3—20 to 28 inches; reddish brown (5YR 4/4) clay loam, reddish brown (5YR 4/4) moist; strong coarse prismatic structure parting to strong medium subangular blocky, extremely hard, very firm, sticky and plastic; few fine and medium roots; few very fine and fine tubular pores; many prominent clay films on faces of peds; slightly alkaline (pH 7.4); clear wavy boundary.

Bt4—28 to 40 inches; reddish brown (5YR 4/4) clay loam, yellowish red (5YR 4/6) moist; strong very prismatic structure parting to strong medium subangular blocky; extremely hard, very firm, sticky and plastic; few fine and medium roots; few very fine continuous tubular pores; many prominent clay films on faces of peds; slightly alkaline (pH 7.8); clear smooth boundary.

Btk1—40 to 49 inches; reddish brown (5YR 4/4) clay loam, reddish brown (5YR 4/4) moist; strong coarse prismatic structure parting to strong coarse angular blocky; extremely hard, very firm, sticky and plastic; few fine roots; few very fine discontinuous pores; many prominent clay films on faces of peds; few fine soft filaments of calcium carbonate; 1 percent calcium carbonate; slightly effervescent; moderately alkaline (pH 8.1); clear smooth boundary.

Btk2—49 to 60 inches; reddish brown (5YR 4/4) clay loam; reddish brown (5YR 5/4) moist; strong medium subangular blocky structure; hard, firm, sticky and plastic; few fine discontinuous tubular pores; common prominent clay films on faces of peds; common medium soft masses of calcium carbonate; 19 percent calcium carbonate; strongly effervescent; moderately alkaline (pH 8.2).

The mollic epipedon ranges from 10 to 16 inches thick. The depth to secondary calcium carbonate ranges from 30 to 50 inches. The depth to calcic horizon ranges from 40 to 70 inches.

A horizon: The hue is 5YR through 10YR; the value is 4 or 5 dry, 2 or 3 moist; and the chroma is 2 or 3. The reaction is neutral or slightly alkaline.

Bt horizon: The hue is 5YR or 7.5YR; the value is 4 to 6 dry, 3 through 5 moist; and the chroma is 2 through 6. The texture is silty clay loam, loam, sandy clay loam, or clay loam. The particle-size control section has 18 to 40 percent clay, but averages 18 to 35 percent. The reaction is neutral or slightly alkaline.

Btk horizon: The hue is 5YR or 7.5YR. The texture is loam, clay loam, or sandy clay loam. The reaction is moderately alkaline.

Granturk Series

The Granturk series consists of shallow or very shallow, well drained soils on alpine mountain slopes, structural benches, and mesas. These soils formed in residual material and slope alluvium weathered from red bed sandstone. The slopes range from 5 to 60 percent. The elevation ranges from 11,500 to 13,000 feet. The

average annual precipitation ranges from 35 to 50 inches. The average annual air temperature ranges from 28 to 34 degrees F.

These soils are loamy, isotic Lithic Dystricrypts.

A typical pedon of Granturk loam, 5 to 25 percent slopes, is located north of Engineer Mountain about 2,100 feet east and 3,000 feet north of the southwest corner of sec. 19, T. 40 N., R. 8 W.:

- Oi—0 to 1 inch; slightly decomposed organic material, principally roots, stems, and leaves.
- A—1 inch to 3 inches; weak red (10R 5/2) loam, weak red (10R 4/2) moist; weak fine granular structure; soft, very friable, nonsticky and nonplastic; abundant very fine roots; very strongly acid (pH 5.0); clear smooth boundary.
- E—3 to 8 inches; weak red (10R 5/3) loam, weak red (10R 4/2) moist; weak very fine granular structure; soft, very friable, nonsticky and nonplastic; abundant roots; very strongly acid (pH 4.8); clear smooth boundary.
- Bw1—8 to 17 inches; pale red (10R 6/4) loam, weak red (10R 4/4) moist; weak fine subangular blocky structure parting to moderate medium granular; soft, very friable, nonsticky and nonplastic; few very fine roots; very strongly acid (pH 4.6); clear smooth boundary.
- Bw2—17 to 19 inches; pale red (10R 6/4) very gravelly sandy loam, weak red (10R 4/4) moist; weak fine granular structure; soft, very friable, nonsticky and nonplastic; 35 percent small sandstone gravel; very strongly acid (pH 4.6); abrupt smooth boundary.
- R—19 inches; hard red sandstone bedrock, fractured and weathered in the upper inch.

Bedrock is at a depth of 7 to 20 inches from the mineral soil surface. The particle-size control section has an average of 0 to 35 percent rock fragments, but more typically has 0 to 15 percent and increases just above bedrock. Base saturation ranges from 30 to 50 percent.

A and E horizons: The hue is 10R through 5YR; the value is 5 or 6 dry, 4 or 5 moist; and the chroma is 2 through 6. The reaction is very strongly acid or strongly acid.

Bw1 horizon: The hue is 10R through 5YR; the value is 5 or 6 dry, 4 or 5 moist; and the chroma is 3 through 6. The texture is loam or clay loam, but is more typically loam. The particle-size control section has 20 to 35 percent clay. The reaction is very strongly acid or strongly acid.

Bw2 horizon (when present): The hue is 10R through 5YR; the value is 5 or 6 dry, 4 or 5 moist; and the chroma is 3 through 6. The texture is sandy loam with rock fragment modifiers. The reaction is very strongly acid or strongly acid.

Graysill Series

The Graysill series consists of moderately deep, well drained soils on mountain slopes, ridges, and mesas. These soils formed in residuum and slope alluvium weathered from red bed sandstone and shale. The slopes range from 5 to 60 percent. The elevation ranges from 9,000 to 11,500 feet. The average annual precipitation ranges from 35 to 45 inches. The average annual air temperature ranges from 30 to 38 degrees F.

These soils are fine-loamy, mixed, superactive Eutric Haplocryalfs.

A typical pedon of Graysill loam is in an area of Scotch-Graysill complex 30 to 60 percent slopes, located along Hotel Draw road approximately 200 feet north and 500 feet west of the southeast corner of sec. 10, T. 39 N., R. 10 W.:

- Oi—0 to 2 inches; organic mat of slightly decomposed roots, needles, leaves, and twigs.

E—2 to 14 inches: light reddish brown (5YR 6/3) loam, reddish brown (5YR 4/3) moist; moderate medium granular structure; slightly hard, friable, slightly sticky and slightly plastic; 5 percent gravel; very strongly acid (pH 5.0); gradual wavy boundary.

EB—14 to 22 inches; reddish brown (2.5YR 5/4) clay loam, reddish brown (2.5YR 4/4) moist; weak medium subangular blocky structure parting to moderate medium granular; slightly hard, friable, sticky and plastic; 5 percent gravel; strongly acid (pH 5.2); gradual wavy boundary.

Bt—22 to 37 inches; red (2.5YR 5/6) clay loam, reddish brown (2.5YR 4/4) moist; moderate medium subangular blocky structure parting to moderate medium granular; hard, firm, sticky and plastic; 5 percent cobbles, 5 percent gravel, and 1 percent stones; common distinct clay films on faces of peds; strongly acid (pH 5.2); abrupt wavy boundary.

R—37 inches; hard red sandstone, fractured in the upper part.

The depth to bedrock is 20 to 40 inches from the mineral soil surface. The particle-size control section has 5 to 35 percent sandstone rock fragments, which consist mostly of gravel and cobbles. The reaction is very strongly acid or strongly acid.

E horizon: The hue is 2.5YR through 7.5YR; the value is 6 or 7 dry, 4 or 5 moist; and the chroma is 2 or 3.

Bt horizon: The hue is 2.5YR or 5YR; the value is 4 through 6 dry, 3 or 4 moist; and the chroma is 4 through 6. The texture of the fine-earth fraction typically is clay loam or loam. The particle-size control section has 18 to 35 percent clay.

Grimes Series

The Grimes series consists of very deep, somewhat excessively drained soils on river terraces, alluvial fans, and fan remnants. These soils formed in very gravelly and cobbly alluvium derived from granitic rocks. The slopes range from 0 to 3 percent. The elevation ranges from 7,800 to 8,200 feet. The average annual precipitation ranges from 24 to 30 inches. The average annual air temperature ranges from 42 to 45 degrees F.

These soils are sandy-skeletal, mixed, frigid, Udic Haplustepts.

A typical pedon of Grimes very cobbly sandy loam, 0 to 3 percent slopes, is located north of Vallecito Reservoir, about 1,100 feet north and 500 feet east of the southwest corner of sec. 21, T. 37 N, R. 6 W.:

A—0 to 5 inches; grayish brown (10YR 5/2) very cobbly sandy loam, very dark grayish brown (10YR 3/2) moist; weak fine granular structure; soft, very friable; nonsticky and nonplastic; many fine roots; 20 percent gravel, 30 percent cobbles, and 3 percent stones; neutral (pH 6.8); clear smooth boundary.

Bw—5 to 22 inches; pale brown (10YR 6/3) extremely cobbly sandy loam, brown (10YR 4/3) moist; weak fine granular structure; soft, very friable, nonsticky and nonplastic; many fine roots; 20 percent gravel, 40 percent cobbles, and 10 percent stones; neutral (pH 6.8); gradual smooth boundary.

C—22 to 60 inches; pale brown (10YR 6/3) extremely cobbly sand, brown (10YR 5/3) moist; single grain; loose; few fine roots in upper part; 30 percent gravel, 40 percent cobbles, and 10 percent stones; neutral (pH 6.6).

The particle-size control section has 35 to 80 percent rock fragments.

The fragments are mostly cobbles and gravel of granitic origin, but some stones are present. The soil is slightly acid or neutral throughout.

A horizon: The hue is 7.5YR or 10YR; the value is 5 or 6 dry, 3 to 5 moist; and the chroma is 2 to 4.

Bw horizon: The hue is 7.5YR or 10YR; the value is 5 to 7 dry, 3 to 5 moist; and the chroma is 3 to 5. The texture of the fine-earth fraction is sandy loam or loamy sand with rock modifiers.

C horizon: The hue is 7.5YR or 10YR; the value is 5 to 7 dry, 3 to 5 moist; and the chroma is 3 to 5. The texture of the fine-earth fraction is sand or loamy sand with rock modifiers.

Haplocryolls

Haplocryolls consist of moderately deep to very deep, well drained soils on mountain slopes below ledges and cliffs. These soils formed in slope alluvium and colluvium derived from sandstone and limestone. The slopes range from 10 to 60 percent. The elevation ranges from 8,000 to 10,000 feet. Average annual precipitation ranges from 25 to 35 inches and the average annual air temperature ranges from 35 to 40 degrees F.

These soils are Haplocryolls.

A reference pedon of Haplocryolls is in an area of Haplocryolls-Rubble land complex, 10 to 60 percent slopes, located in the southeast quarter of the northeast quarter of Sec. 23, T. 39 N, R. 9 W.:

Oi—0 to 2 inches; organic mat of partly decayed aspen leaves, twigs and other debris.

A1—2 to 10 inches; dark grayish brown (10YR 4/2) very cobbly loam, very dark brown (10YR 2/2) moist; moderate fine granular structure; soft, very friable, nonsticky and nonplastic; 15 percent gravel, 20 percent cobbles, and 5 percent stones; very many fine roots; neutral (pH 6.6); clear smooth boundary.

A2—10 to 19 inches; dark grayish brown (10YR 4/2) very cobbly loam, very dark brown (10YR 2/2) moist; moderate fine granular structure; soft, very friable, nonsticky and nonplastic; 15 percent gravel, 20 percent cobbles, and 2 percent stones; many fine roots; neutral (pH 6.6); gradual wavy boundary.

Bw—19 to 29 inches; brown (7.5 YR 5/2) very cobbly clay loam, brown (7.5 YR 5/2) moist; weak medium subangular blocky structure parting to moderate fine granular; slightly hard, friable, slightly sticky and slightly plastic; 20 percent gravel, 30 percent cobbles, and 7 percent stones; few medium roots; neutral (pH 6.8); gradual wavy boundary.

C—29 to 62 inches; brown (7.5 YR 5/2) very cobbly sandy clay loam, brown (7.5 YR 4/4) moist; massive structure; soft, friable, slightly sticky and nonplastic; 25 percent gravel, 20 percent cobbles, and 10 percent stones; neutral (pH 6.8).

The depth to bedrock ranges from 20 to 60 inches or more from the mineral soil surface. The mollic epipedon ranges from 7 to 24 inches thick. The particle-size control section has 35 to 80 percent rock fragments.

The reaction ranges from moderately acid through neutral.

A horizon: The hue is 7.5YR or 10YR; the value is 4 or 5 dry, 2 or 3 moist; and the chroma is 1 through 3.

B horizon: The hue is 5YR through 10YR; the value is 4 through 6 dry, 3 through 5 moist; and the chroma is 2 through 6. The texture of the fine-earth fraction is loam or clay loam.

C horizon: The hue is 5YR through 10YR; the value is 5 through 7 dry, 3 through 5 moist; and the chroma is 2 through 6.

Haplustalfs

Haplustalfs consist of shallow to very deep, well drained soils on canyon side slopes and mountain slopes. These soils formed in colluvium and slope alluvium

derived dominantly from sandstone and shale. The slopes range from 30 to 80 percent. The elevation ranges from 6,900 to 8,500 feet. Average annual precipitation ranges from 15 to 22 inches, and average annual air temperature ranges from 40 to 46 degrees F.

These soils are Haplustalfs.

A reference pedon of Haplustalfs is in an area of Argiustolls-Haplustalfs-Rock Outcrop complex, 30 to 80 percent slopes, located in the southeast quarter of the northwest quarter of sec. 7, T. 41 N., R. 17 W.:

- A1—0 to 2 inches; brown (10YR 5/3) very stony loam, very dark grayish brown (10YR 3/2) moist; moderate thick platy structure parting to weak fine granular; soft, very friable, slightly sticky and slightly plastic; many very fine to medium roots; 10 percent gravel, 10 percent cobbles, and 35 percent stones; neutral (pH 7.0); clear wavy boundary.
- A2—2 to 5 inches; brown (10YR 5/3) very stony loam, dark brown (10YR 3/3) moist; moderate medium subangular blocky structure; slightly hard, very friable, slightly sticky and slightly plastic; common very fine and few fine and medium roots; 10 percent gravel, 10 percent cobbles, and 35 percent stones; neutral (pH 7.0); clear wavy boundary.
- EB—5 to 10 inches; very pale brown (10YR 7/3) very stony clay loam, brown (10YR 4/3) moist; weak fine subangular blocky structure; slightly hard, friable, sticky and plastic; few very fine to medium roots; 10 percent gravel, 10 percent cobbles, and 35 percent stones; slightly acid (pH 6.4); clear wavy boundary.
- Bt1—10 to 24 inches; pale brown (10YR 6/3) very stony clay, brown (10YR 5/3) moist; strong medium angular blocky structure; very hard, very firm, very sticky and very plastic; few very fine to medium roots; common thin clay films on the faces of peds; 10 percent gravel, 10 percent cobbles, and 35 percent stones; neutral (pH 7.0); gradual wavy boundary.
- Bt2—24 to 41 inches; light yellowish brown (10YR 6/4) very stony clay, yellowish brown (10YR 5/4) moist; moderate medium subangular blocky structure; very hard, very firm, very sticky and very plastic; few very fine to medium roots; common thin clay films on the faces of peds; 10 percent gravel, 10 percent cobbles, and 35 percent stones; neutral (pH 7.0); gradual wavy boundary.
- CB1—41 to 55 inches; light yellowish brown (10YR 6/4) very stony clay, yellowish brown (10YR 5/4) moist; weak medium subangular blocky structure; very hard, very firm, very sticky and very plastic; few very fine roots; 10 percent gravel, 10 percent cobbles, and 35 percent stones; neutral (pH 7.2), clear irregular boundary.
- CB2—55 to 60 inches; light yellowish brown (10YR 6/4) extremely stony clay, yellowish brown (10YR 5/4) moist; weak medium subangular blocky structure; very hard, very firm, very sticky and very plastic; few very fine roots; 25 percent gravel, 10 percent cobbles, and 35 percent stones; neutral (pH 7.0).

The depth to bedrock ranges from 10 to 60 inches or more. The particle-size control section has 10 to 60 percent sandstone rock fragments. The reaction is slightly acid to slightly alkaline.

A horizon: The hue is 7.5YR or 10YR; the value is 5 or 6 dry, 3 or 4 moist; and the chroma is 1 through 3.

EB horizon: The hue is 7.5YR or 10YR; the value is 6 or 7 dry, 4 or 5 moist; and the chroma is 2 through 4. The texture of the fine-earth fraction is loam or clay loam with rock fragment modifiers.

Bt horizon: The hue is 5YR through 10YR; the value is 5 or 6 dry, 4 or 5 moist; and the chroma is 3 through 6. The texture of the fine-earth fraction is clay loam or clay with rock fragment modifiers. The particle-size control section has 27 to 50 percent clay.

Haplustolls

Haplustolls consist of very deep, well drained and moderately well drained soils on flood plains and in drainageways. These soils formed in alluvium derived from mixed sources. The slopes range from 0 to 5 percent. The elevation ranges from 5,800 to 7,400 feet. Average annual precipitation ranges from 13 to 20 inches, and average annual air temperature ranges from 47 to 52 degrees F.

These soils are Haplustolls.

A reference pedon of Haplustolls is in an area of Fluvaquents-Haplustolls complex, 0 to 5 percent slopes, located in the southwest quarter of the southeast quarter of sec. 34, T. 39 N., R. 16 W.:

- A—0 to 4 inches; grayish brown (10YR 5/2) sandy loam, very dark brown (10YR 2/2) moist; weak fine subangular blocky structure parting to weak very fine granular; soft, very friable, nonsticky and nonplastic; 5 percent gravel and 5 percent cobbles; neutral (pH 7.2); clear smooth boundary.
- BA—4 to 11 inches; dark grayish brown (10YR 4/2) loam, very dark brown (10YR 2/2) moist; weak medium subangular blocky structure parting to weak fine subangular blocky; hard, friable, nonsticky and slightly plastic; 10 percent gravel and 5 percent cobbles; neutral (pH 7.2); clear wavy boundary.
- Bw—11 to 19 inches; brown (10YR 4/3) loam, very dark brown (10YR 2/2) moist; moderate medium subangular blocky structure parting to moderate fine subangular blocky; very hard, friable, nonsticky and slightly plastic; slightly effervescent; 12 percent gravel; slightly alkaline (pH 7.8); abrupt smooth boundary.
- 2C1—19 to 24 inches; brown (10YR 5/3) gravelly loamy sand, dark brown (10YR 3/3) moist; single grained; loose, loose, nonsticky and nonplastic; slightly effervescent; 25 percent gravel and 5 percent cobbles; slightly alkaline (pH 7.8); abrupt smooth boundary.
- 2C2—24 to 60 inches; very pale brown (10YR 7/3) extremely cobbly sand, pale brown (10YR 6/3) moist; single grained; loose, loose, nonsticky and nonplastic; strongly effervescent; 45 percent gravel, 35 percent cobbles, and 5 percent stones; moderately alkaline (pH 8.0).

The mollic epipedon ranges from 10 to 30 inches thick. The depth to the gravelly and cobbly substratum ranges from 15 to 30 inches. The B horizon is not present in some pedons.

A horizon: The hue is 7.5YR or 10YR; the value is 4 or 5 dry, 1 through 3 moist; and the chroma is 1 through 3. The reaction is neutral or slightly alkaline.

Bw horizon: The hue is 7.5YR or 10YR; the value is 4 through 6 dry, 3 through 5 moist; and the chroma is 2 through 6. The texture of the fine-earth fraction is loam or fine sandy loam. The particle-size control section has 10 to 25 percent clay and 0 to 15 percent rock fragments. The reaction is neutral or slightly alkaline.

2C horizons: The hue is 7.5YR through 2.5Y. The texture of the fine-earth fraction ranges from sandy loam to sand with rock fragment modifiers of gravelly to extremely cobbly. The particle-size control section has 0 to 18 percent clay and 15 to 80 percent rock fragments. The reaction is neutral through moderately alkaline.

Haviland Series

The Haviland series consists of very deep, well drained soils on mountain slopes and mesas. These soils formed in slope alluvium and colluvium weathered from red bed sandstone and shale. The slopes range from 5 to 60 percent. The elevation ranges from 8,500 to 11,500 feet. The average annual precipitation ranges from 35 to 45 inches. The average annual air temperature ranges from 32 to 38 degrees F.

These soils are fine-loamy, mixed, superactive Eutric Haplocryalfs.

A typical pedon of Haviland loam is in an area of Haviland-Graysill complex, 5 to 30 percent slopes, located along Elbert Creek road near the top of Durango Mountain Ski Area, approximately 2,500 feet east and 2,000 feet north of the southwest corner of sec. 27, T. 39 N., R. 9 W.:

Oi—0 to 2 inches; organic mat of roots, needles, leaves, and twigs.

E—2 to 14 inches: light reddish brown (5YR 6/3) loam, reddish brown (5YR 4/4) moist; moderate medium subangular blocky structure; slightly hard, very friable, nonsticky and nonplastic; 5 percent gravel; very strongly acid (pH 5.0); clear smooth boundary.

Bt1—14 to 24 inches; red (2.5YR 4/6) clay loam, dark reddish brown (2.5YR 3/4) moist; strong coarse subangular blocky structure parting to weak strong medium subangular blocky; slightly hard, friable, sticky and plastic; few faint clay films on faces of peds and in pores; 5 percent gravel, 2 percent cobbles, and 2 percent stones; very strongly acid (pH 4.8); clear wavy boundary.

Bt2—24 to 62 inches; reddish brown (2.5YR 4/4) gravelly clay loam, dark red (2.5YR 3/6) moist; strong medium subangular blocky structure; slightly hard, friable, sticky and plastic; common distinct clay films on faces of peds; 15 percent gravel, 10 percent cobbles, and 5 percent stones; very strongly acid (pH 4.8).

The particle-size control section has 0 to 15 percent sandstone rock fragments in the upper part, consisting mostly of gravel, cobbles, and stones. The reaction is very strongly acid or strongly acid throughout.

E horizon: The hue is 2.5YR through 7.5YR; the value is 5 or 6 dry, 4 or 5 moist; and the chroma is 2 through 4.

Bt horizon: The hue is 10R through 5YR; the value is 4 or 5 dry, 3 or 4 moist; and the chroma is 3 through 6. The texture of the fine-earth fraction typically is sandy clay loam, clay loam, or loam with rock fragment modifiers in the lower part. The particle-size control section has 18 to 35 percent clay.

Haycamp Series

The Haycamp series consists of very deep, well drained soils on mountain slopes and canyon side slopes. These soils formed in slope alluvium and colluvium derived from sandstone and shale. The slopes range from 30 to 80 percent. The elevation ranges from 8,600 to 11,500 feet. Average annual precipitation ranges from 30 to 40 inches, and average annual air temperature ranges from 32 to 38 degrees F. There are about 2 percent stones on the surface.

These soils are fine, smectitic Typic Eutrocryepts

A typical pedon of Haycamp cobbly clay loam is in an area of Haycamp-Jersey complex, 30 to 80 percent slopes, located about 1,000 feet west and 2,900 feet north of the southeast corner of sec. 29, T. 39 N., R. 12 W.:

Oe—0 to 1 inch; partly decomposed leaves, roots, and twigs.

A—1 inch to 5 inches; very dark brown (10YR 2/2) cobbly clay loam, black (10YR 2/1) moist; weak fine subangular blocky structure parting to weak fine granular; soft, friable, slightly sticky and plastic; many very fine, many fine, and few medium roots; many very fine continuous pores; 5 percent gravel, 15 percent cobbles, and 5 percent stones; slightly acid (pH 6.2); clear smooth boundary.

E—5 to 13 inches; light gray (10YR 7/2) cobbly clay, brown (10YR 5/3) moist; moderate medium subangular blocky structure; extremely hard, very firm, sticky and plastic; common very fine, fine, and coarse, and few medium roots; many very fine continuous pores; 10 percent gravel, 15 percent cobbles, and 5 percent stones; slightly acid (pH 6.2); clear wavy boundary.

- Bw1—13 to 21 inches; pale brown (10YR 6/3) cobbly clay, brown (10YR 5/3) moist; moderate coarse subangular blocky structure parting to moderate fine subangular blocky; extremely hard, extremely firm, sticky and plastic; common medium and coarse roots; many very fine continuous pores; 10 percent gravel and 10 percent cobbles; slightly acid (pH 6.2); clear wavy boundary.
- Bw2—21 to 30 inches; pale brown (10YR 6/3) clay, brown (10YR 5/3) moist; moderate coarse subangular blocky structure parting to moderate medium subangular blocky; extremely bard, very firm, sticky and plastic; common fine, medium and coarse roots; many very fine continuous pores; 8 percent gravel and 5 percent cobbles; slightly acid (pH 6.4); gradual wavy boundary.
- Bw3—30 to 38 inches; mixed colors of very pale brown (10YR 7/3) and (10YR 7/4) clay, brown (10YR 5/3) and light yellowish brown (10YR 6/4) moist; moderate medium subangular blocky structure; extremely hard, very firm, sticky and plastic; common fine and medium, and few coarse roots; many very few continuous pores; 8 percent gravel and 5 percent cobbles; slightly acid (pH 6.4); gradual wavy boundary.
- C1—38 to 56 inches; light brownish gray (10YR 6/2) gravelly clay, brown (10YR 5/3) moist; few fine distinct light yellowish brown (10YR 6/4) lithochromic mottles; massive; extremely hard, extremely firm, sticky and plastic; common medium and coarse and few fine roots; many very fine continuous pores; 15 percent gravel and 10 percent cobbles; neutral (pH 6.6); clear wavy boundary.
- C2—56 to 61 inches; light brownish gray (10YR 6/2) very cobbly clay loam, grayish brown (10YR 5/2) moist; few fine distinct light yellowish brown (10YR 6/4) lithochromic mottles; massive; extremely hard, extremely firm, sticky and plastic; 10 percent gravel, 25 percent cobbles, and 2 percent stones; neutral (pH 6.6).

The particle-size control section has 35 to 50 percent clay and 5 to 25 percent rock fragments.

A horizon: The hue is 10YR; the value is 2 through 5 dry, 2 or 3 moist; and the chroma is 1 through 3. The reaction is moderately acid or slightly acid.

E horizon: The hue is 10YR; the value is 6 or 7 dry, 5 or 6 moist; and the chroma is 2 or 3. The reaction is moderately acid or slightly acid.

Bw horizon: The hue is 7.5YR or 10YR; the value is 5 through 7 dry, 4 through 6 moist; and the chroma is 3 through 6. The texture of the fine-earth fraction is clay or clay loam with gravelly or cobbly rock modifiers in some horizons of some pedons. The reaction is moderately acid through neutral.

C horizon: The hue is 2.5Y through 7.5YR. The texture of the fine-earth fraction is clay or clay loam with rock modifiers of gravelly, cobbly, or very cobbly. The particle-size control section has 15 to 50 percent rock fragments, which consist mostly of gravel and cobbles. The reaction is slightly acid or neutral.

Heisspitz Series

The Heisspitz series consists of shallow, well drained soils on mountain slopes and structural benches. These soils formed in colluvium derived from limestone and sandstone. The slopes range from 5 to 60 percent. The elevation ranges from 9,000 to 11,000 feet. The average annual precipitation ranges from 35 to 45 inches. The average annual air temperature ranges from 32 to 38 degrees F.

These soils are loamy, mixed, superactive Lithic Haplocryolls.

A typical pedon of Heisspitz loam is in an area of Clayburn-Heisspitz complex, 15 to 30 percent slopes, located about 2,700 feet north and 500 feet east of the southwest corner of sec. 2, T. 37 N., R. 8 W.:

A1—0 to 9 inches; brown (7.5YR 4/2) loam, dark brown (7.5YR 3/2) moist; moderate fine granular structure; soft, very friable, slightly sticky and nonplastic; slightly acid (pH 6.2); clear smooth boundary.

A2—9 to 14 inches; brown (7.5YR 4/2) loam, dark brown (7.5YR 3/2) moist; moderate medium granular structure; soft, very friable, slightly sticky and nonplastic; slightly acid (pH 6.4); clear wavy boundary.

R—14 inches; fractured limestone bedrock with soil material working down into cracks.

The mollic epipedon is 6 to 20 inches thick. Bedrock is at a depth of 10 to 20 inches. The texture is loam or clay loam. The particle-size control section has 18 to 35 percent clay and 0 to 15 percent limestone and sandstone rock fragments, most of which are gravel and cobbles. The reaction is moderately acid or slightly acid.

A horizon: The hue is 7.5YR or 10YR; the value is 3 through 5 dry, 2 or 3 moist; and the chroma is 1 through 3.

Bw horizon (when present): The hue is 7.5YR or 10YR; the value is 3 through 6 dry, 2 through 5 moist; and the chroma is 2 through 4.

Helmet Series

The Helmet series consists of very deep, well drained soils on mountain slopes. These soils formed in slope alluvium derived mostly from diorite, rhyolite and shale. The slopes range from 1 to 60 percent. The elevation ranges from 9,000 to 10,500 feet. The mean annual precipitation ranges from 30 to 40 inches and the mean annual air temperature ranges from 34 to 40 degrees F.

These soils are fine, smectitic Veric Argicryolls.

A typical pedon of Helmet clay loam, 1 to 15 percent slopes, is located in Montezuma County, about 10 miles northeast of Mancos along Forest Service road 566, about 2,500 feet south and 50 feet west of the northeast corner of sec. 27, T. 37 N., R. 12 W.:

Oi—0 to 2 inches; organic mat of decomposing leaves, roots and needles.

A—2 to 4 inches; dark brown (10YR 3/3) clay loam, very dark gray (10YR 3/1) moist; moderate medium and fine granular structure; slightly hard, very friable, slightly sticky and slightly plastic; 5 percent gravel; strongly acid (pH 5.2); clear wavy boundary.

BA—4 to 13 inches; grayish brown (10YR 5/2) clay loam, very dark grayish brown (10YR 3/2) moist; moderate fine and medium subangular blocky structure parting to strong medium granular; slightly hard, firm, slightly sticky and plastic; few faint clay films on faces of peds; 5 percent gravel; moderately acid (pH 5.6); clear wavy boundary.

Bt1—13 to 21 inches; light brownish gray (10YR 6/2) clay, dark grayish brown (10YR 4/2) moist; moderate coarse prismatic structure parting to strong medium angular blocky; extremely hard, very firm, sticky and plastic; many prominent clay films on faces of peds and in pores; 5 percent gravel; moderately acid (pH 5.6); gradual wavy boundary.

Bt2—21 to 28 inches; grayish brown (10YR 5/2) and yellowish brown (10YR 5/4) clay, dark brown (10YR 3/3) moist; strong medium angular and subangular blocky structure; extremely hard, very firm, sticky and plastic; common prominent clay films on faces of peds and in pores; 5 percent gravel; moderately acid (pH 5.8); gradual wavy boundary.

BC—28 to 46 inches; grayish brown (10YR 5/2) and yellowish brown (10YR 5/4) silty clay, very dark grayish brown (10YR 3/2) and dark yellowish brown (10YR 4/4) moist; moderate coarse subangular blocky structure; very hard, very firm, sticky

and plastic; few faint clay films in pores; 10 percent gravel and shale chips; slightly acid (pH 6.2); gradual wavy boundary.

C—46 to 62 inches; grayish brown (10YR 5/2) silty clay loam, brown (10YR 4/3) moist; massive; hard, firm, slightly sticky and plastic; 5 percent gravel and shale chips and 5 percent cobbles; slightly acid (pH 6.2).

The mollic epipedon ranges from 10 to 16 inches thick and may include part of the B horizon. The depth to the base of the Bt ranges from 26 to 60 inches from the mineral soil surface

A horizon: The hue is 7.5YR or 10YR; the value is 3 or 4 dry, 2 or 3 moist; and the chroma is 1 through 3. The texture is loam or clay loam. The reaction is strongly acid through slightly acid.

Bt horizons: The hue is 7.5YR or 10YR; the value is 5 or 6 dry, 3 or 4 moist; and the chroma is 2 through 4. The texture is clay loam or clay.

The particle-size control section has 35 to 55 percent clay and 2 to 15 percent rock fragments, which consist mostly of gravel and cobbles of diorite and rhyolite composition. The reaction is moderately acid or slightly acid.

BC horizon (when present): The hue is 7.5YR or 10YR; the value is 4 through 6 dry, 3 through 5 moist; and the chroma is 2 through 4. Darker colors are due to the color of the shale material. The reaction is moderately acid or slightly acid.

C horizon: The hue is 7.5YR or 10YR.

Henson Series

The Henson series consists of very deep, well drained soils on alpine valley fills and mountain slopes. These soils formed in colluvium and slope alluvium derived mostly from rhyolite with minor areas from redbed sandstone. The slopes range from 10 to 60 percent. The elevation ranges from 11,000 to 13,500 feet. The average annual precipitation ranges from 35 to 45 inches. The average annual air temperature ranges from 28 to 34 degrees F.

These soils are loamy-skeletal, isotic Typic Dystrocrypts.

A typical pedon of Henson very gravelly loam, 30 to 60 percent slopes, is located in Burns Gulch, just above the tree line, in an unsectionized area, in the projected northeast quarter of sec. 17, T. 42 N., R. 6 W.:

Oi—0 to 1 inch; partly decomposed organic mat of grass leaves, roots, and stems.

A—1 inch to 5 inches; brown (7.5YR 5/2) very gravelly loam, dark brown (7.5YR 3/2) moist; moderate fine granular; soft, very friable, nonsticky and nonplastic; 25 percent gravel, 10 percent cobbles, and 2 percent stones; very strongly acid (pH 5.0); clear smooth boundary.

Bw1—5 to 13 inches; reddish brown (5YR 5/4) very cobbly loam, dark reddish brown (5YR 3/4) moist; moderate medium granular; soft, very friable, nonsticky and nonplastic; 15 percent gravel, 15 percent cobbles, and 10 percent stones; very strongly acid (pH 5.0); clear smooth boundary.

Bw2—13 to 25 inches; light reddish brown (5YR 6/4) very stony sandy clay loam; dark reddish brown (5YR 3/4) moist; weak fine granular; soft, very friable, nonsticky and nonplastic; 10 percent gravel, 25 percent cobbles, and 20 percent stones; very strongly acid (pH 5.0); clear smooth boundary.

C—25 to 61 inches; brown (7.5YR 5/4) extremely stony sandy loam; brown (7.5YR 4/2) moist; massive; loose, loose, nonsticky and nonplastic; 15 percent gravel 30 percent cobbles, and 30 percent stones; very strongly acid (pH 5.0).

Base saturation ranges from 35 to 50 percent. The particle-size control section has 18 to 35 percent clay and 35 to 75 percent rock fragments, most of which are angular gravel and cobbles derived from rhyolite and similar volcanic rocks.

A horizon: The hue is 5YR through 10YR; the value is 5 or 6 dry, 3 through 5 moist; and the chroma is 2 through 4. The reaction is very strongly acid or strongly acid.

Bw horizon: The hue is 5YR or 7.5YR; the value is 5 through 7 dry, 3 through 6 moist; and the chroma is 2 through 6. The texture of the fine-earth fraction typically is loam, clay loam, or sandy clay loam with rock fragment modifiers of very cobbly or very stony. The reaction is very strongly acid or strongly acid.

C horizon: The hue is 5YR or 7.5YR. The texture of the fine-earth fraction typically is loam, sandy clay loam, or sandy loam with rock fragment modifiers of extremely cobbly, extremely stony, or very cobbly. The reaction is very strongly acid or strongly acid.

Herm Series

The Herm series consists of very deep, well drained soils on mesas, structural benches and hills. These soils formed in slope alluvium derived dominantly from shale, sandstone, and quartz diorite. The slopes range from 0 to 45 percent. The elevation ranges from 7,800 to 9,000 feet. The average annual precipitation ranges from 16 to 25 inches. The average annual air temperature ranges from 40 to 45 degrees F.

These soils are fine, smectitic, frigid Typic Argiustolls

A typical pedon of Herm loam, in an area of Fughes-Herm complex, 5 to 25 percent slopes, is located about 1,100 feet south and 1,700 feet east of the northwest corner of sec. 7, T. 36 N., R. 12 W.:

- A—0 to 6 inches; dark grayish brown (10YR 4/2) loam, black (10YR 2/1) moist; moderate medium granular structure; soft, friable, slightly sticky and slightly plastic; neutral (pH 6.8); clear smooth boundary.
- AB—6 to 13 inches; dark brown (10YR 3/3) clay loam, very dark gray (10YR 3/1) moist; moderate medium subangular blocky structure; hard, firm, sticky and plastic; neutral (pH 6.6); clear smooth boundary.
- Bt1—13 to 17 inches; grayish brown (10YR 5/2) clay loam, dark grayish brown (10YR 4/2) moist; strong medium angular and subangular blocky structure; hard, firm, very sticky and very plastic; few distinct clay films on faces of peds; neutral (pH 6.6); gradual wavy boundary.
- Bt2—17 to 45 inches; brown (10YR 5/3) clay loam, brown (10YR 4/3) moist; strong medium angular and subangular blocky structure; very hard, very firm, very sticky and very plastic; many prominent clay films on faces of peds; 5 percent gravel; neutral (pH 6.6); gradual wavy boundary.
- BC—45 to 60 inches; grayish brown (10YR 5/2) clay loam, brown (10YR 4/3) moist; weak medium subangular blocky structure; hard, firm, sticky and plastic; 5 percent gravel and 9 percent cobbles; neutral (pH 7.0).

The mollic epipedon ranges from 10 to 16 inches thick. The particle-size control section has 35 to 50 percent clay and 0 to 15 percent sandstone and diorite rock fragments.

A horizon: The hue is 7.5YR or 10YR; the value is 3 through 5 dry, 2 or 3 moist; and the chroma is 1 through 3. The texture is loam or stony loam. The reaction is slightly acid or neutral.

Bt horizon: The hue is 10YR or 2.5Y; the value is 5 or 6 dry, 4 or 5 moist; and the chroma is 2 through 4. The texture is clay loam or clay.

The particle-size control section has 35 to 50 percent clay. The reaction is slightly acid to slightly alkaline.

BC horizon: The hue is 10YR or 2.5Y. The reaction is neutral through moderately alkaline.

Hesperus Series

The Hesperus series consists of very deep, moderately well drained soils in drainageways and on low terraces. These soils formed in alluvium derived from mixed sources. The slopes range from 0 to 3 percent. The elevation ranges from 7,100 to 8,500 feet. Average annual precipitation ranges from 15 to 20 inches, and average annual air temperature ranges from 40 to 45 degrees F.

These soils are fine-loamy, mixed, superactive, frigid Pachic Argiustolls.

A typical pedon of Hesperus loam, 0 to 3 percent slopes, is located about 2,900 feet east and 2,000 feet south of the northwest corner of sec. 23, T. 41 N., R. 17 W.:

- A—0 to 3 inches; very dark grayish brown (10YR 3/2) loam, black (10YR 2/1) moist; moderate medium platy structure parting to weak fine subangular blocky; slightly hard, friable, nonsticky and slightly sticky; neutral (pH 7.0); abrupt smooth boundary.
- AB—3 to 8 inches; very dark grayish brown (10YR 3/2) loam, black (10YR 2/1) moist; weak medium prismatic structure parting to moderate medium subangular blocky; hard, friable, slightly sticky and plastic; 10 percent gravel; neutral (pH 7.0); clear smooth boundary.
- Bt1—8 to 15 inches; very dark grayish brown (10YR 3/2) loam, black (10YR 2/1) moist; moderate coarse prismatic structure parting to moderate coarse subangular blocky; slightly hard, very friable, nonsticky and slightly plastic; few faint clay films on faces of peds; neutral (pH 7.0); gradual wavy boundary.
- Bt2—15 to 22 inches; very dark grayish brown (10YR 3/2) loam, black (10YR 2/1) moist; moderate coarse prismatic structure parting to moderate coarse subangular blocky; hard, friable, slightly sticky and slightly plastic; few distinct clay films on faces of peds; neutral (pH 7.0); clear wavy boundary.
- Bt3—22 to 28 inches; very dark grayish brown (10YR 3/2) loam, black (10YR 2/1) moist; moderate medium prismatic structure parting to moderate medium subangular blocky; very hard, friable, sticky and plastic; few distinct clay films on faces of peds; neutral (pH 7.0); clear smooth boundary.
- Bt4—28 to 40 inches; very dark grayish brown (10YR 3/2) clay loam, black (10YR 2/1) moist; moderate medium prismatic structure parting to strong medium angular blocky; extremely hard, very firm, sticky and plastic; few distinct clay films on faces of peds; neutral (pH 7.0); clear smooth boundary.
- C1—40 to 51 inches; dark grayish brown (10YR 4/2) clay loam, very dark grayish brown (10YR 3/2) moist; massive; very hard, very friable, sticky and plastic; common fine distinct brownish yellow (10YR 6/6) moist, masses of iron concentrations; neutral (pH 7.0); clear wavy boundary.
- C2—51 to 60 inches; very dark grayish brown (10YR 3/2) clay loam, very dark grayish brown (10YR 3/2) moist; massive, very hard, friable, sticky and plastic; common distinct brownish yellow (10YR 6/6) moist, masses of iron concentrations; neutral (pH 7.0).

The mollic epipedon is 17 to 60 inches thick and includes part or all of the Bt horizon. A seasonal high water table is at a depth of 40 to 72 inches from April through July. The particle-size control section has 0 to 10 percent rock fragments. The reaction is neutral throughout.

A horizon: The hue is 2.5Y or 10YR; the value is 3 through 5 dry, 2 or 3 moist; and the chroma is 1 through 3.

Bt horizon: The hue is 2.5Y or 10YR; the value is 3 through 6 dry, 2 through 5 moist; and the chroma is 1 through 4. The particle-size control section has 18 to 35 percent clay. The texture is loam or clay loam.

C horizon: The hue is 2.5Y or 10YR.

Hofly Series

The Hofly series consist of very deep, well drained soils on mesas and mountain slopes. These soils formed in slope alluvium derived dominantly from sandstone and shale. The slopes range from 5 to 40 percent. The elevation ranges from 8,500 to 9,200 feet. Average annual precipitation ranges from 20 to 26 inches. The average annual air temperature ranges from 35 to 40 degrees F.

These soils are fine, smectitic Pachic Haplocryolls.

A typical pedon of Hofly loam in an area of Leaps-Hofly complex, 5 to 40 percent slopes, is located in the northeast quarter of the southeast quarter of sec. 23, T. 41 N., R. 15 W.:

- A1—0 to 7 inches; dark grayish brown (10YR 4/2) loam, very dark grayish brown (10YR 3/2) moist; weak thin platy structure parting to moderate fine granular; soft, friable, slightly sticky and slightly plastic; neutral (pH 6.8); clear smooth boundary.
- Bw—7 to 30 inches; grayish brown (10YR 5/2) clay loam, very dark grayish brown (10YR 3/2) moist; moderate medium subangular blocky structure; hard, firm, sticky and plastic; neutral (pH 6.8); clear smooth boundary.
- C—30 to 60 inches; pale brown (10YR 6/3) clay, brown (10YR 4/3) moist; massive; very hard, very firm, very sticky and very plastic; 5 percent gravel; neutral (pH 6.8); clear smooth boundary.

The mollic epipedon ranges from 16 to 35 inches thick. The texture is clay loam or clay. The particle-size control section has 35 to 45 percent clay and 0 to 5 percent rock fragments. The soil is neutral throughout.

A horizon: The hue is 2.5Y or 10YR; the value is 3 or 4 dry, 2 or 3 moist; and the chroma is 1 or 2.

Bw horizon: The hue is 2.5Y or 10YR; the value is 4 or 5 dry, 2 or 3 moist; and the chroma is 1 or 2.

C horizon: The hue is 2.5Y or 10YR; the value is 4 through 6 dry, 4 or 5 moist; and the chroma is 2 through 4.

Horsethief Series

The Horsethief series consists of very deep, well drained soils on mountain slopes. These soils formed in slope alluvium and colluvium derived from sandstone, volcanic, and igneous rocks. The slopes range from 10 to 75 percent. The elevation ranges from 8,400 to 11,500 feet. The average annual precipitation ranges from 25 to 45 inches. The average annual air temperature ranges from 32 to 38 degrees F.

These soils are loamy-skeletal, mixed, superactive Typic Palecryalfs.

A typical pedon of Horsethief loam is in an area of Frisco-Horsethief complex, 30 to 75 percent slopes, located along an unused logging road about 900 feet north and 900 feet west of the southeast corner of sec. 2, T. 37 N., R. 6 W.:

- Oi—0 to 2 inches; decomposing organic mat of needles, twigs, and bark.
- A—2 to 5 inches; pale brown (10YR 6/3) loam, dark brown (10YR 3/3) moist; moderate fine granular structure; soft, very friable, slightly sticky, slightly plastic; 3 percent gravel, 1 percent cobbles, and 1 percent stones; strongly acid (pH 5.2); clear smooth boundary.
- E1—5 to 16 inches; pale brown (10YR 6/3) fine sandy loam, brown (10YR 4/3) moist; weak medium subangular blocky structure that parts to weak, fine granular; soft, very friable, nonsticky, nonplastic; 3 percent gravel, 1 percent cobbles, and 1 percent stones; strongly acid (pH 5.2); clear wavy boundary.
- E2—16 to 24 inches; light yellowish brown (10YR 6/4) fine sandy loam, dark yellowish brown (10YR 4/4) moist; weak, medium angular blocky structure that parts to moderate, fine granular; slightly hard, very friable, nonsticky, nonplastic;

5 percent gravel, 3 percent cobbles, and 1 percent stones; strongly acid (pH 5.2); clear smooth boundary.

E/B—24 to 32 inches; (60 percent E) very pale brown (10YR 7/3) fine sandy loam, brown (10YR 4/3) moist, and (40 percent B) brown (10YR 5/3) sandy clay loam, dark grayish brown (10YR 4/2) moist; moderate medium subangular blocky structure that parts to moderate fine granular; slightly hard, very friable, slightly sticky and slightly plastic; very few distinct clay films on faces of peds of the B part; 10 percent gravel, 2 percent cobbles, and 2 percent stones; strongly acid (pH 5.2); gradual wavy boundary.

Bt—32 to 49 inches; brown (10YR 5/3) very stony clay loam, dark grayish brown (10YR 4/2) moist; moderate medium subangular blocky structure; hard, friable, sticky and plastic; common distinct clay films on faces of peds; 15 percent gravel, 10 percent cobbles, and 15 percent stones; moderately acid (pH 5.6); gradual wavy boundary.

BC—49 to 62 inches; brown (7.5YR 5/2) very stony clay loam, dark brown (7.5YR 3/2) moist; moderate coarse subangular blocky structure; slightly hard, friable, sticky, plastic; 15 percent gravel, 15 percent cobbles, and 15 percent stones; neutral (pH 6.8).

The depth to the top of the argillic horizon is 24 to 36 inches from the mineral soil surface. The particle-size control section has 35 to 75 percent sandstone, volcanic, and igneous rock fragments.

A horizon: The hue is 7.5YR through 2.5Y; the value is 4 through 6 dry, 2 or 3 moist; and the chroma is 1 through 3. The texture of the fine-earth fraction typically is loam or fine sandy loam with rock fragment modifiers in some pedons. The particle-size control section has 5 to 75 percent rock fragments. The reaction is strongly acid or moderately acid.

E horizon: The hue is 7.5YR through 2.5Y; the value is 5 through 7 dry, 4 or 6 moist; and the chroma is 2 through 4. The texture of the fine-earth fraction typically is fine sandy loam or sandy loam with rock fragment modifiers in some pedons. The particle-size control section has 5 to 75 percent rock fragments. The reaction is strongly acid or moderately acid.

E/B horizon: The hue is 7.5YR through 2.5Y.

E part: The value is 5 through 8 dry, 4 through 6 moist; and the chroma is 2 through 4. The texture of the fine-earth fraction is fine sandy loam.

B part: The value is 5 through 7 dry, 4 through 6 moist; and the chroma is 2 through 6. The texture of the fine-earth fraction is sandy clay loam or clay loam. The reaction is strongly acid or moderately acid. The particle-size control section has 10 to 75 percent rock fragments.

Bt horizon: The hue is 7.5YR through 2.5Y; the value is 5 through 7 dry, 4 through 6 moist; and the chroma is 3 through 6. The texture of the fine-earth fraction typically is clay loam, loam, or sandy clay loam. The particle-size control section has 18 to 35 percent clay and 35 to 75 percent rock fragments. The reaction is strongly acid or moderately acid.

BC horizon: The hue is 7.5YR through 2.5Y. The texture of the fine-earth fraction typically is loam or clay loam with very stony or extremely stony rock modifiers.

Hotter Series

The Hotter series consists of shallow, well drained soils on mountain slopes and structural benches. These soils formed in slope alluvium and residuum weathered mainly from sandstone and shale. The slopes range from 30 to 60 percent. The elevation ranges from 8,500 to 11,500 feet. The average annual precipitation ranges from 30 to 45 inches. The average annual air temperature ranges from 32 to 38 degrees F.

These soils are loamy-skeletal, mixed, superactive, Lithic Eutrocrypts

A typical pedon of Hotter very stony sandy loam is in an area of Wander-Hotter-Hourglass complex, 30 to 60 percent slopes, located about 1,100 feet south and 400 feet west of the northeast corner of sec. 33, T. 39 N., R. 9 W.:

- A—0 to 4 inches; brown (10YR 5/3) very stony sandy loam, brown (10YR 4/3) moist; weak fine granular structure; soft, very friable, nonsticky and nonplastic; many fine and very fine roots; 10 percent gravel, 15 percent cobbles, and 20 percent stones; slightly acid (pH 6.4); clear smooth boundary.
- Bw—4 to 14 inches; yellowish brown (10YR 5/4) very stony sandy loam, dark yellowish brown (10YR 4/4) moist; weak medium subangular blocky structure parting to weak fine granular; soft, very friable, nonsticky and nonplastic; many fine and very fine roots; 10 percent gravel, 15 percent cobbles, and 20 percent stones; neutral (pH 6.8); abrupt smooth boundary.
- R—14 inches; sandstone bedrock, fractured in the upper few inches.

The depth to bedrock is 10 to 20 inches. The particle-size control section has 10 to 18 percent clay and 35 to 75 percent sandstone rock fragments.

A horizon: The hue is 7.5YR or 10YR; the value is 5 to 7 dry, 4 to 6 moist; and the chroma is 2 through 4. The reaction is slightly acid or neutral.

Bw horizon: The hue is 7.5YR or 10YR; the value is 5 or 6 dry, 4 or 5 moist; and the chroma is 3 to 6. The texture of the fine-earth fraction is loam or sandy loam with rock fragment modifiers. The reaction is slightly acid or neutral.

Hourglass Series

The Hourglass series consists of very deep, well drained soils on mountain slopes. These soils formed in slope alluvium and colluvium derived from sandstone, limestone, and shale and from mixed sources. The slopes range from 5 to 60 percent. The elevation ranges from 8,000 to 11,500 feet. The average annual precipitation ranges from 30 to 45 inches. The average annual air temperature ranges from 32 to 38 degrees F.

These soils are fine-loamy, mixed, superactive Typic Argicryolls.

A typical pedon of Hourglass loam is in an area of Hourglass-Wander complex, 5 to 30 percent slopes, located on Missionary Ridge in the southeast quarter of the southeast quarter of sec. 3, T. 37 N., R. 8 W.:

- A—0 to 11 inches; dark grayish brown (10YR 4/2) loam, very dark grayish brown (10YR 3/2) moist; moderate fine granular structure; soft, very friable; non-sticky and non-plastic; 10 percent gravel, 1 percent cobbles, and 1 percent stones; slightly acid (pH 6.2); clear wavy boundary.
- Bt1—11 to 18 inches; brown (7.5YR 5/4) clay loam, brown (7.5YR 4/3) moist; weak, medium subangular blocky structure parting to moderate medium granular; hard, firm, sticky and plastic; few faint clay films on faces of peds; 10 percent gravel, 2 percent cobbles, and 1 percent stones; neutral (pH 6.6); clear wavy boundary.
- Bt2—18 to 31 inches; brown (7.5YR 4/4) gravelly clay loam, brown (7.5YR 4/4) moist; moderate, medium subangular blocky structure; hard, firm, sticky and plastic; few distinct clay films on faces of peds; 10 percent gravel, 5 percent cobbles, and 3 percent stones; neutral (pH 6.6); clear wavy boundary.
- Bt3—31 to 46 inches; brown (7.5YR 4/3), very stony clay loam, reddish brown (5YR 4/3) moist; moderate, medium angular blocky structure that parts to moderate, medium subangular blocky; hard, firm, sticky and plastic; few distinct clay films on faces of peds; 5 percent gravel, 10 percent cobbles, and 20 percent stones; neutral (pH 6.8); clear wavy boundary.

C—46 to 60 inches; brown (7.5YR 5/2) very stony clay loam, brown (7.5YR 4/2) moist; massive; hard, friable, sticky and plastic; 15 percent gravel, 10 percent cobbles, and 20 percent stones; neutral (pH 7.0).

The mollic epipedon ranges from 10 to 16 inches thick. The particle-size control section has 20 to 35 percent clay and 5 to 35 percent sandstone and limestone rock fragments. The reaction is slightly acid or neutral throughout.

A horizon: The hue is 7.5YR or 10YR; the value is 4 or 5 dry, 2 or 3 moist; and the chroma is 1 through 3.

Bt horizon: The hue is 5YR or 10YR; the value is 4 or 5 dry, 3 or 4 moist; and the chroma is 3 through 6. The texture of the fine-earth fraction typically is clay loam or sandy clay loam with rock fragment modifiers in some pedons.

C horizon: The hue is 5YR through 10YR; the value is 5 or 6 dry, 4 or 5 moist; and the chroma is 2 through 6. The texture typically is loam, cobbly loam, or very stony clay loam.

Howardsville Series

The Howardsville series consists of very deep, well-drained soils on fan remnants and river terraces. These soils formed in alluvium derived mostly from rhyolite, tuff and similar volcanic rock. The slopes range from 1 to 6 percent. The elevation ranges from 8,300 to 10,000 feet. The average annual precipitation ranges from 20 to 30 inches. The average annual air temperature ranges from 35 to 38 degrees F.

These soils are sandy-skeletal, mixed Ustic Eutrocryepts.

A typical pedon of Howardsville gravelly loam, 1 to 6 percent slopes, is located about 1,000 feet east and 300 feet north of the southwest corner of sec. 17, T. 41 N., R. 7 W.:

A—0 to 2 inches; dark grayish brown (10YR 4/2) gravelly loam, black (10YR 2/1) moist; moderate fine granular structure; soft, friable, nonsticky, and nonplastic; 15 percent gravel and 5 percent cobbles; slightly acid (pH 6.2); clear smooth boundary.

Bw—2 to 10 inches; brown (7.5YR 5/4) very gravelly sandy loam, dark brown (7.5YR 3/4) moist; weak fine granular structure, soft, friable, nonsticky, and nonplastic; 30 percent gravel, 10 percent cobbles, and 2 percent stones; moderately acid (pH 6.0); clear wavy boundary.

C—10 to 60 inches; light brown (7.5YR 6/4) extremely cobbly loamy sand, dark yellowish brown (10YR 4/4) moist; single grained, loose, loose, nonsticky, and nonplastic; 30 percent gravel, 25 percent cobbles, and 10 percent stones; moderately acid (pH 5.8).

The particle-size control section has 35 to 80 percent rock fragments.

The reaction is moderately acid or neutral.

A horizon: The hue is 7.5YR or 10YR; the value is 4 through 6 dry, 2 through 4 moist; and the chroma is 1 through 4.

Bw horizon: The hue is 7.5YR or 10YR; the value is 5 or 6 dry, 3 through 5 moist; and the chroma is 3 through 6.

C horizon: The hue is 7.5YR or 10YR; the value is 5 or 6 dry, 3 to 5 moist; and the chroma is 2 through 4. The texture of the fine-earth fraction typically is loamy sand or sand.

Jemco Series

The Jemco series consists of moderately deep, well drained soils on mesas and hills. These soils formed in silty eolian material over residuum derived from

sandstone. The slopes range from 1 to 15 percent. The elevation ranges from 7,800 to 8,500 feet. The average annual precipitation ranges from 18 to 22 inches. The average annual air temperature ranges from 40 to 46 degrees F.

These soils are fine-loamy, mixed, superactive, frigid Typic Haplustalfs.

A typical pedon of Jemco silt loam is in an area of Jemco-Detra-Beje, complex, 1 to 15 percent slopes, located about 1,200 feet east and 2,100 feet north of the southwest corner of sec. 27, T 40 N., R. 16 W.:

- A1—0 to 2 inches; brown (10YR 5/3) silt loam, dark brown (7.5YR 3/2) moist; weak fine granular structure; soft, friable, nonsticky and nonplastic; neutral (pH 6.6); clear smooth boundary.
- A2—2 to 7 inches; brown (7.5YR 5/2) silt loam, dark brown (7.5YR 3/2) moist; weak medium subangular blocky structure that parts to weak fine granular; slightly hard, very friable, slightly sticky and non plastic; slightly acid (pH 6.4); clear wavy boundary.
- BE—7 to 14 inches; light reddish brown (5YR 6/4) loam, reddish brown (5YR 4/3) moist; weak medium subangular blocky structure; hard, very friable, slightly sticky and non plastic; slightly acid (pH 6.2); gradual wavy boundary.
- Bt1—14 to 22 inches; brown (7.5YR 5/4) loam, reddish brown (5YR 4/3) moist; weak medium subangular blocky structure; very hard, friable, sticky and plastic; few distinct clay films on faces of peds and in root channels and pores; slightly acid (pH 6.2); gradual wavy boundary.
- Bt2—22 to 35 inches; reddish brown (5YR 5/4) clay loam, dark reddish brown (5YR 3/4) moist; moderate medium subangular blocky structure; hard, friable, very sticky and plastic; few distinct clay films on faces of peds; slightly acid (pH 6.2); gradual wavy boundary.
- 2Bt—35 to 39 inches; yellowish red (5YR 4/6) clay loam, yellowish red (5YR 4/6) moist; moderate medium angular blocky structure; very hard, friable, very sticky and plastic; few prominent clay films on faces of peds and in pores; slightly acid (pH 6.1); abrupt wavy boundary.
- 2R—39 inches; hard fractured sandstone bedrock, weathered in the upper inch.

The depth to lithic contact of sandstone bedrock ranges from 20 to 40 inches. The particle-size control section has 0 to 5 percent sandstone rock fragments. The reaction is slightly acid or neutral.

A horizon: The hue is 7.5YR or 10YR; the value is 3 through 5 dry, 2 or 3 moist; and the chroma is 2 or 3. The texture of the fine-earth fraction is loam or silt loam.

Bt horizon: The hue is 5YR or 7.5YR; the value is 4 through 7 dry, 3 or 4 moist; and the chroma is 3 through 6. The texture is loam, clay loam, silt loam, or sandy clay loam. The particle-size control section has 18 to 35 percent clay.

2Bt horizon: The hue is 5YR or 7.5YR, value or 4 to 6 dry, 3 or 4 moist; and the chroma is 4 through 6. The texture is clay loam or sandy clay loam.

Jersey Series

The Jersey series consists of very deep, well drained soils on mountain slopes and canyon side slopes. These soils formed in colluvium and slope alluvium derived from sandstone and shale. The slopes range from 30 to 80 percent. The elevation ranges from 7,600 to 11,500 feet. Average annual precipitation ranges from 25 to 40 inches, and average annual air temperature ranges from 32 to 40 degrees F.

These soils are clayey-skeletal, smectitic Typic Haplocryolls.

A typical pedon of Jersey very cobbly loam is in an area of Dressel-Jersey complex, 30 to 80 percent slopes, located about 1,600 feet south and 2,600 feet north of the northeast corner of sec. 29, T. 39 N., R. 12 W.:

- Oe—0 to 1 inch; organic layer of moderately decomposed leaves and twigs.

- A—1 inch to 8 inches; very dark gray (10YR 3/1) very cobbly loam, black (10YR 2/1) moist; weak coarse granular structure; soft, very friable, nonsticky and nonplastic; many very coarse and coarse and common medium roots; many very fine pores; 15 percent gravel, 25 percent cobbles, and 5 percent stones; neutral (pH 6.8); clear smooth boundary.
- AB—8 to 13 inches; dark grayish brown (10YR 4/2) very cobbly clay loam, very dark grayish brown (10YR 3/2) moist; weak fine subangular blocky structure parting to weak fine granular; hard, very friable, sticky and plastic; common very fine and fine, and few coarse roots; many very fine pores; 15 percent gravel, 25 percent cobbles, and 10 percent stones; neutral (pH 6.8); clear wavy boundary.
- Bw1—13 to 18 inches; brown (10YR 5/3) very cobbly clay loam, grayish brown (10YR 5/2) moist; moderate medium subangular blocky structure; very hard, friable, sticky and plastic; few fine, medium, and coarse roots; common very fine pores; 10 percent gravel, 25 percent cobbles, and 15 percent stones; neutral (pH 6.8); clear smooth boundary.
- Bw2—18 to 26 inches; very pale brown (10YR 7/3) extremely stony clay loam, yellowish brown (10YR 5/4) moist; weak medium prismatic structure parting to moderate medium subangular blocky; very hard, friable, sticky and plastic; common fine and medium, and few coarse roots; common very fine pores; 15 percent gravel, 30 percent cobbles, and 20 percent stones; neutral (pH 6.8); clear wavy boundary.
- Bw3—26 to 37 inches; light brownish gray (2.5Y 6/2) very cobbly clay loam, light olive brown (2.5Y 5/4) moist; moderate medium subangular blocky structure; extremely hard, firm, sticky and plastic; few very fine, fine, medium and coarse roots; common very fine pores; 10 percent gravel, 35 percent cobbles, and 15 percent stones; neutral (pH 6.8); gradual wavy boundary.
- C1—37 to 47 inches; light brownish gray (2.5YR 6/2) very cobbly clay, light yellowish brown (2.5YR 6/4) moist; common medium distinct yellowish brown (10YR 5/6) lithochromic mottles; massive; extremely hard, very firm, sticky and plastic; few fine roots; few fine pores; 10 percent gravel, 30 percent cobbles, and 15 percent stones; neutral (pH 6.8); clear smooth boundary.
- C2—47 to 61 inches; light brownish gray (2.5YR 6/2) very cobbly clay, grayish brown (2.5YR 5/2) moist; common medium distinct yellowish brown (10YR 5/6) lithochromic mottles; massive; extremely hard, very firm, sticky and plastic; 10 percent gravel, 30 percent cobbles, and 15 percent stones; neutral (pH 6.8).

The mollic epipedon is 10 to 16 inches thick. The particle-size control section has 35 to 45 percent clay and 35 to 75 percent sandstone rock fragments.

A horizon: The hue is 10YR; the value is 3 or 4 dry, 2 or 3 moist; and the chroma is 1 or 2. The reaction is slightly acid or neutral.

Bw horizons: The hue is 10YR or 2.5Y; the value is 5 through 7 dry, 4 or 5 moist; and the chroma is 2 through 4. The texture of the fine-earth fraction is clay loam or clay with rock fragment modifiers of very cobbly or extremely stony. The reaction is slightly acid or neutral.

C horizon: The hue is 10YR or 2.5Y; the value is 6 or 7 dry, 2 through 4 moist; and the chroma is 2 through 4. The texture of the fine-earth fraction typically is clay loam or clay with rock fragment modifiers. The particle-size control section has 35 to 75 percent sandstone rock fragments. The reaction is neutral.

Kite Series

The Kite series consists of shallow or very shallow, well drained soils on mountain slopes. These soils formed in residuum derived mostly from limestone and sandstone. The slopes range from 15 to 30 percent. The elevation ranges from 11,000 to 12,000

feet. The average annual precipitation ranges from 35 to 45 inches. The average annual air temperature ranges from 30 to 35 degrees F.

These soils are loamy, mixed, superactive Humic Lithic Dystrocryepts.

A typical pedon of Kite loam is in an area of Kite-Rock outcrop, sedimentary, complex, 15 to 30 percent slopes, located in Carbonate Basin, about 2,285 feet south and 550 feet east of the northwest corner of sec. 23, T. 37 N., R. 7 W.:

A1—0 to 1 inch; dark grayish brown (10YR 4/2) loam, very dark grayish brown (10YR 3/2) moist; moderate very fine granular structure; soft, very friable, nonsticky and nonplastic; 5 percent gravel; strongly acid (pH 5.2); abrupt smooth boundary.

A2—1 inch to 4 inches; brown (10YR 4/3) sandy loam, dark brown (10YR 3/3) moist; moderate fine granular structure that parts to moderate very fine granular; soft, very friable, nonsticky and nonplastic; 10 percent gravel; strongly acid (pH 5.2); clear smooth boundary.

Bw1—4 to 9 inches; brown (10YR 4/3) sandy clay loam, dark brown (10YR 3/3) moist; moderate medium subangular blocky structure that parts to moderate fine subangular blocky; slightly hard, friable, slightly sticky and slightly plastic; 10 percent gravel; strongly acid (pH 5.2) gradual wavy boundary.

Bw2—9 to 15 inches; dark yellowish brown (10YR 4/4) gravelly sandy loam, dark yellowish brown (10YR 3/4) moist; moderate medium subangular blocky structure that parts to moderate fine subangular blocky; slightly hard, friable, slightly sticky and slightly plastic; 15 percent gravel and 5 percent flagstones; very strongly acid (pH 5.0); gradual wavy boundary.

Bw3—15 to 18 inches; yellowish brown (10YR 5/4) sandy loam, dark yellowish brown (10YR 4/4) moist; moderate medium subangular blocky structure that parts to moderate fine subangular blocky; slightly hard, friable, slightly sticky and slightly plastic; 13 percent gravel; very strongly acid (pH 5.0); abrupt wavy boundary.

R—18 inches; fractured limestone bedrock.

Bedrock is at a depth of 8 to 20 inches. The reaction is very strongly acid or strongly acid. The particle-size control section has 5 to 35 percent rock fragments, most of which are gravel.

A horizon: The hue is 10YR; the value is 4 or 5 dry, 2 or 3 moist; and the chroma is 2 or 3, dry and moist.

Bw horizon: The hue is 10YR; the value is 4 or 5 dry, 3 or 4 moist; and the chroma is 3 through 6. The texture of the fine-earth fraction typically is sandy clay loam or sandy loam with rock fragment modifiers of gravelly in some horizons. The particle-size control section has 15 to 27 percent clay.

Leaps Series

The Leaps series consist of very deep, well drained soils on mesas and mountain slopes. These soils formed in slope alluvium derived from sandstone and shale. The slopes range from 5 to 40 percent. The elevation ranges from 8,500 to 9,200 feet. Average annual precipitation ranges from 20 to 26 inches. The average annual air temperature ranges from 35 to 40 degrees F.

These soils are fine, smectitic Vertic Haplocryolls.

A typical pedon of Leaps clay loam is in an area of Leaps-Hofly complex, 5 to 40 percent slopes, located in the northwest quarter of the southeast quarter of sec. 24, T. 41 N., R. 15 W.:

A1—0 to 3 inches; grayish brown (10YR 5/2) clay loam, very dark gray (10YR 3/1) moist; weak medium platy structure; soft, friable, sticky and slightly plastic; 3 percent gravel; neutral (pH 6.8); clear smooth boundary.

A2—3 to 7 inches; gray (10YR 5/1) clay loam, very dark gray (10YR 3/1) moist;

moderate medium granular structure; slightly hard, friable, sticky and slightly plastic; neutral (pH 6.6); clear smooth boundary.

A3—7 to 14 inches; gray (10YR 5/1) clay loam, very dark grayish brown (10YR 3/2) moist; moderate medium granular structure; hard, friable, sticky and plastic; neutral (pH 6.6); clear smooth boundary.

Bw—14 to 22 inches; light brownish gray (10YR 6/2) clay loam, dark grayish brown (10YR 4/2) moist; weak medium subangular blocky structure; very hard, friable, sticky and very plastic; slightly acid (pH 6.4); clear smooth boundary.

C—22 to 60 inches; light brownish gray (10YR 6/2) clay, grayish brown (10YR 5/2) moist; massive; very hard, friable, very sticky and very plastic; slightly acid (pH 6.4).

The mollic epipedon ranges from 7 to 15 inches thick. The texture is clay loam or clay. The particle-size control section has 35 to 50 percent clay and 0 to 15 percent sandstone rock fragments, most of which are gravel.

The soil is slightly acid or neutral throughout.

A horizon: The hue is 7.5YR or 10YR; the value is 4 or 5 dry, 2 or 3 moist; and the chroma is 1 through 3.

Bw horizon: The hue is 7.5YR or 10YR; the value is 5 or 6 dry, 4 or 5 moist; and the chroma is 2 through 6.

C horizon: The hue is 7.5YR or 10YR; the value is 5 through 7 dry, 4 through 6 moist; and the chroma is 2 through 4.

Lillings Series

The Lillings series consists of very deep, well drained soils on flood plains and in drainageways. These soils formed in alluvium derived from shale and sandstone. The slopes range from 0 to 5 percent. The elevation ranges from 6,500 to 7,200 feet. The mean annual precipitation ranges from 12 to 13 inches. The mean annual air temperature ranges from 47 to 52 degrees F.

These soils are fine-silty, mixed, superactive, calcareous, mesic Ustic Torrifluvents.

A typical pedon of Lillings silty clay loam, 0 to 5 percent slopes, is located about 35 miles north of Dolores, northwest of the area where Forest Road 240 crosses Ryman Creek, in the northwest quarter of sec. 17, T 41 N, R 15 W.:

A—0 to 8 inches; grayish brown (10YR 5/2) silty clay loam, dark grayish brown (10YR 4/2) moist; moderate, fine granular structure; soft, very friable, slightly sticky and slightly plastic; common fine roots; violently effervescent; moderately alkaline (pH 8.2); clear smooth boundary.

C1—8 to 27 inches; pale brown (10YR 6/3) silty clay loam, with thin strata of very fine sandy loam and silt loam, grayish brown (10YR 5/2) moist; weak medium subangular blocky and moderate medium granular structure; slightly hard, friable, slightly sticky and nonplastic; common fine roots; violently effervescent; strongly alkaline (pH 8.6); gradual smooth boundary.

C2—27 to 50 inches; pale brown (10YR 6/3) silty clay loam, with thin strata of very fine sandy loam and silt loam, grayish brown (10YR 5/2) moist; massive; slightly hard, friable, slightly sticky and nonplastic; few fine roots; violently effervescent; moderately alkaline (pH 8.4); clear smooth boundary.

C3—50 to 60 inches; pale brown (10YR 6/3) silty clay loam, with thin strata of very fine sandy loam and silt loam, grayish brown (10YR 5/2) moist; moderate medium angular blocky structure; hard, firm, slightly sticky and slightly plastic; violently effervescent; moderately alkaline (pH 8.2).

The particle-size control section has 18 to 35 percent clay and less than 15 percent sand that is coarser than very fine sand. The profile is commonly calcareous

throughout. The moisture control section usually is dry in all parts from May 15 through June.

A horizon: The hue is 2.5Y or 10YR; the value is 5 or 6 dry, 4 or 5 moist; and the chroma is 2 or 3. The reaction is slightly alkaline or moderately alkaline.

C horizon: The hue is 2.5Y or 10YR; the value is 5 or 6 dry, 4 through 6 moist; and the chroma is 2 or 3. The texture is stratified silt loam to clay loam. The reaction is moderately alkaline through very strongly alkaline.

Lonecone Series

The Lonecone series consists of moderately deep, well drained soils on mesas. These soils formed in residuum derived from sandstone and shale, with some eolian influence. The slopes range from 0 to 5 percent. The elevation ranges from 7,600 to 8,500 feet. The average annual precipitation ranges from 18 to 25 inches. The average annual air temperature ranges from 40 to 44 degrees F.

These soils are fine-loamy, mixed, superactive, frigid Pachic Haplustolls.

A typical pedon of Lonecone loam, 0 to 5 percent slopes, is located in Dolores County, about 3 miles southwest of Benchmark lookout tower about 1,200 feet south and 150 feet east of the northwest corner of sec. 4, T. 40 N., R. 16 W.:

- A1—0 to 6 inches; dark brown (10YR 3/3) loam, very dark grayish brown (10YR 3/2) moist; moderate fine granular structure; soft, very friable; nonsticky and nonplastic; many fine roots; neutral (pH 7.0); clear smooth boundary.
- A2—6 to 27 inches; dark brown (10YR 3/3) loam, very dark brown (10YR 2/2) moist; weak medium subangular blocky structure parting to moderate medium granular; slightly hard, friable, nonsticky and nonplastic; 1 percent gravel; few fine roots; neutral (pH 7.0); clear smooth boundary.
- Bw—27 to 30 inches; strong brown (7.5YR 5/8) gravelly sandy clay loam, strong brown (7.5YR 4/6) moist; massive; hard, friable, nonsticky and nonplastic; 15 percent gravel; neutral (pH 6.9); gradual smooth boundary.
- Cr—30 to 40 inches; soft partially weathered sandstone.

The depth to bedrock ranges from 20 to 40 inches. The mollic epipedon ranges from 16 to 36 inches thick. The texture typically is loam, clay loam, or sandy clay loam. The particle-size control section has 18 to 35 percent clay. The reaction is neutral or slightly alkaline throughout.

A horizon: The hue is 7.5YR or 10YR; the value is 3 through 5 dry, 2 or 3 moist; and the chroma is 1 through 3.

Bw horizon (when present): The hue is 7.5YR or 10YR; the value is 5 or 6 dry, 4 through 6 moist; and the chroma is 4 through 8. The particle-size control section has 15 to 30 percent rock fragments.

Lostlake Series

The Lostlake series consists of shallow or very shallow, well drained soils on mountain slopes. These soils formed in residuum and slope alluvium derived mostly from granite. The slopes range from 30 to 80 percent. The elevation ranges from 9,000 to 11,500 feet. The average annual precipitation ranges from 30 to 45 inches. The average annual air temperature ranges from 32 to 38 degrees F.

These soils are loamy, isotic Lithic Dystricrypts.

A typical pedon of Lostlake loam is in an area of Lostlake-Rock outcrop complex, 30 to 80 percent slopes, located west of Stump Lakes, about 2,600 feet west and 2,200 feet south of the northeast corner of sec. 9, T. 37 N., R. 7 W.:

Oi—0 to 2 inches; organic layer.

A—2 to 6 inches; reddish gray (5YR 5/2) loam, dark reddish gray (5YR 4/2) moist;

moderate fine granular structure; slightly hard, friable, nonsticky and nonplastic; 10 percent gravel; very strongly acid (pH 4.8); clear smooth boundary.

Bw—6 to 15 inches; light reddish brown (5YR 6/4) gravelly sandy clay loam, reddish brown (5YR 4/4) moist; moderate medium granular structure; slightly hard, very friable, nonsticky and slightly plastic; 20 percent gravel; very strongly acid (pH 4.6); abrupt smooth boundary.

R—15 inches; granite bedrock, fractured in the upper few inches.

The depth to bedrock ranges from 8 to 20 inches from the mineral soil surface. The reaction is very strongly acid or strongly acid throughout.

A horizon: The hue is 5YR or 7.5YR; the value is 5 or 6 dry, 3 or 4 moist; and the chroma is 2 or 3.

Bw horizon: The hue is 2.5YR or 5YR; the value is 5 or 6 dry, 4 or 5 moist; and the chroma is 3 through 6. The texture is gravelly sandy clay loam or gravelly loam. The particle-size control section has 20 to 27 percent clay and 15 to 35 percent rock fragments.

Mancos Series

The Mancos series consists of moderately deep, well drained soils on structural benches and mesas. These soils formed in slope alluvium derived mostly from shale and sandstone. The slopes range from 1 to 15 percent. The elevation ranges from 8,500 to 9,600 feet. Average annual precipitation ranges from 25 to 30 inches. The average annual air temperature ranges from 36 to 42 degrees F.

These soils are fine, smectitic Pachic Argicryolls.

A typical pedon of Mancos loam is in an area of Mancos-Skisams-Skutnum complex, 1 to 15 percent slopes, about 900 feet west and 300 feet south of the northeast corner of sec. 21, T. 12 W., R. 37 N.:

A—0 to 8 inches; dark grayish brown (10YR 4/2) loam, very dark grayish brown (10YR 3/2) moist; moderate medium granular structure; slightly hard, friable, nonsticky and nonplastic; neutral (pH 6.6); clear smooth boundary.

AB—8 to 15 inches; dark grayish brown (10YR 4/2) clay loam, very dark grayish brown (10YR 3/2) moist; weak medium subangular blocky structure that parts to moderate medium granular; slightly hard, friable, slightly sticky and slightly plastic; neutral (pH 6.8); clear smooth boundary.

Bt1—15 to 21 inches; dark grayish brown (10YR 4/2) clay loam, very dark grayish brown (10YR 3/2) moist; moderate medium angular blocky structure; very hard, very firm, sticky and plastic; few distinct clay films on the faces of peds; 7 percent gravel; slightly acid (pH 6.2); clear smooth boundary.

Bt2—21 to 26 inches; brown (10YR 5/3) clay loam, brown (10YR 4/3) moist; weak medium subangular blocky structure; hard, firm, sticky and plastic; few distinct clay films on the faces of peds; 7 percent gravel, slightly acid (pH 6.2); clear smooth boundary.

BC—26 to 34 inches; pale brown (10YR 6/3) gravelly sandy clay loam, brown (10YR 5/3) moist; massive; slightly hard, very friable, slightly sticky and slightly plastic; 25 percent gravel; slightly acid (pH 6.4); clear wavy boundary.

R—34 inches; hard shale bedrock.

The depth to shale ranges from 20 to 40 inches. The mollic epipedon ranges from 16 to 30 inches thick and may include part or all of the Bt horizon. Rock fragments consist of hard gravel-sized shale fragments.

A horizon: The hue is 7.5YR or 10YR; the value is 3 or 4, 2 or 3 moist; and the chroma is 1 through 3. The reaction is moderately acid through neutral.

Bt horizon: The hue is 7.5YR or 10YR; the value is 3 through 6, 3 through 5 moist; and the chroma is 2 through 6. The texture is clay or clay loam. The particle-size

control section has 35 to 55 percent clay and 0 to 15 percent rock fragments. The reaction is moderately acid or slightly acid.

BC horizon (when present): The hue is 7.5YR or 10YR. The particle-size control section has 15 to 35 percent rock fragments. The reaction is moderately acid through neutral.

Maudrey Series

The Maudrey series consists of very deep, well drained soils on mesas. These soils formed in slope alluvium derived dominantly from Dakota sandstone. The slopes range from 0 to 15 percent. The elevation ranges from 8,200 to 8,900 feet. Average annual precipitation ranges from 20 to 25 inches, and average annual air temperature ranges from 40 to 42 degrees F.

These soils are fine, smectitic, frigid Pachic Paleustolls.

A typical pedon of Maudrey loam is in an area of Maudrey-Tombac complex, 0 to 15 percent slopes, located about 250 feet west and 1,300 feet south of the northeast corner of sec. 28, T. 38 N., R. 13 W.:

- A1—0 to 4 inches; dark brown (10YR 3/3) loam, black (10YR 2/1) moist; weak fine subangular blocky structure parting to weak very fine granular; soft, very friable, nonsticky and slightly plastic; many very fine and fine roots; many very fine continuous pores; 5 percent gravel; slightly acid (pH 6.5); clear smooth boundary.
- A2—4 to 11 inches; brown (10YR 4/3) loam, black (10YR 2/1) moist; moderate medium subangular blocky structure parting to moderate fine subangular blocky; slightly hard, very friable, slightly sticky and plastic; many very fine and fine roots; many very fine continuous pores; 5 percent gravel; slightly acid (pH 6.5); clear wavy boundary.
- A3—11 to 19 inches; brown (10YR 4/3) loam, very dark grayish brown (10YR 3/2) moist; weak fine subangular blocky structure; soft, very friable, slightly sticky and slightly plastic; many very fine and fine roots; many very fine continuous pores; 5 percent gravel; slightly acid (pH 6.5); clear wavy boundary.
- AB—19 to 25 inches; yellowish brown (10YR 5/4) loam, very dark grayish brown (10YR 3/2) moist; weak fine subangular blocky structure; soft, very friable, slightly sticky and plastic; common very fine and fine roots; many very fine continuous pores; 5 percent gravel; slightly acid (pH 6.4); clear wavy boundary.
- EBt—25 to 31 inches; very pale brown (10YR 7/4) loam, dark yellowish brown (10YR 4/6) moist; weak fine subangular blocky structure parting to weak fine granular; slightly hard, friable, slightly sticky and plastic; few very fine and fine roots; many very fine continuous pores; few faint clay films on faces of peds; 10 percent gravel; moderately acid (pH 5.8); gradual wavy boundary.
- Bt1—31 to 41 inches; strong brown (7.5YR 4/6) clay loam, strong brown (7.5YR 5/6) moist; weak medium prismatic structure parting to strong medium subangular blocky; hard, firm, sticky and plastic; many very fine continuous pores; many prominent clay films on faces of peds; 10 percent gravel; very strongly acid (pH 4.8); clear wavy boundary.
- Bt2—41 to 54 inches; strong brown (7.5YR 5/6) clay, strong brown (7.5YR 5/6) moist; moderate medium prismatic structure parting to strong medium subangular blocky; very hard, extremely firm, very sticky and plastic; common very fine continuous pores; many prominent clay films on faces of peds; 10 percent gravel; very strongly acid (pH 4.8); clear wavy boundary.
- C—54 to 60 inches; yellowish brown (10YR 5/6) clay, yellowish brown (10YR 5/6) moist; massive; very hard, very firm, very sticky and plastic; few very fine continuous pores; 14 percent gravel; very strongly acid (pH 4.8).

The mollic epipedon ranges from 20 to 40 inches thick. The particle-size control section has 35 to 55 percent clay and 0 to 15 percent rock fragments.

A horizon: The hue is 7.5YR or 10YR; the value is 3 or 4 dry, 2 or 3 moist; and the chroma is 1 through 3. The reaction is moderately acid or slightly acid.

Bt horizon: The hue is 7.5YR; the value is 4 to 6 dry, 4 or 5 moist; and the chroma is 5 or 6. The particle-size control section has 35 to 55 percent clay. The texture is clay loam or clay. The reaction is very strongly acid or strongly acid.

C horizon: The hue is 7.5YR or 10YR. The texture is clay or clay loam. The reaction is very strongly acid or strongly acid.

Mavreeso Series

The Mavreeso series consists of very deep, well drained soils on fan remnants, canyon side slopes and mountain slopes. These soils formed in colluvium, alluvium, and slope alluvium derived from red sedimentary rocks, primarily the Dolores and Cutler formations. The slopes range from 5 to 80 percent. The elevation ranges from 7,100 to 8,500 feet. Average annual precipitation ranges from 20 to 22 inches, and average annual air temperature ranges from 43 to 46 degrees F.

These soils are fine-loamy, mixed, superactive, frigid Entic Haplustolls.

A typical pedon of Mavreeso loam, 5 to 30 percent slopes, is located about 2,200 feet north and 1,470 feet east of the southwest corner of sec. 1, T. 38 N., R. 13 W.:

- A1—0 to 5 inches; reddish brown (5YR 4/3) loam, dark reddish brown (5YR 3/2) moist; weak medium subangular blocky structure parting to weak medium granular; slightly hard, friable, nonsticky and slightly plastic; many very fine and many fine roots; many very fine pores; 5 percent channers; slightly alkaline (pH 7.4); clear wavy boundary.
- A2—5 to 10 inches; reddish brown (5YR 4/3) loam, dark reddish brown (5YR 3/3) moist; weak medium subangular blocky structure parting to weak medium granular; slightly hard, friable, nonsticky and slightly plastic; many very fine and many fine roots; many very fine and common medium pores; slightly effervescent; 5 percent channers; slightly alkaline (pH 7.4); gradual wavy boundary.
- Bw1—10 to 18 inches; yellowish red (5YR 4/6) loam, dark reddish brown (5YR 3/4) moist; weak coarse to weak medium subangular blocky structure; slightly hard, friable, slightly sticky and slightly plastic; common very fine and many medium roots; common very fine and few medium pores; slightly effervescent; 5 percent gravel; slightly alkaline (pH 7.6); gradual wavy boundary.
- Bw2—18 to 28 inches; yellowish red (5YR 4/6) channery loam, reddish brown (5YR 4/4) moist; massive; slightly hard, friable, nonsticky and slightly plastic; few very fine and common medium roots; common very fine and few medium pores; slightly effervescent; 20 percent channers; slightly alkaline (pH 7.6); clear wavy boundary.
- Bk1—28 to 42 inches; yellowish red (5YR 4/6) loam, reddish brown (5YR 4/4) moist; moderate coarse subangular blocky structure parting to moderate medium subangular blocky; hard, friable, slightly sticky and slightly plastic; few very fine and common medium roots; common very fine and few medium pores; strongly effervescent; calcium carbonates disseminated; 5 percent channers; slightly alkaline (pH 7.8); clear wavy boundary.
- Bk2—42 to 50 inches; yellowish red (5YR 5/6) channery loam, reddish brown (5YR 4/4) moist; massive; slightly hard, friable, nonsticky and slightly plastic; few medium roots; few very fine pores; few fine soft filaments of calcium carbonate; strongly effervescent; 30 percent channers; slightly alkaline (pH 7.8); clear wavy boundary.
- Bk3—50 to 60 inches; yellowish red (5YR 5/6) loam, yellowish red (5YR 4/6) moist; massive; hard, friable, slightly sticky and slightly plastic; few medium roots;

common very fine and few medium pores; few fine soft filaments of calcium carbonate; strongly effervescent; 5 percent gravel; moderately alkaline (pH 8.0).

The mollic epipedon is 10 to 16 inches thick. Secondary calcium carbonate occurs at a depth of 26 to 40 inches from the mineral soil surface. The particle-size control section has 18 to 27 percent clay and 0 to 35 percent rock fragments, most of which are of sandstone.

A horizon: The hue is 2.5YR through 7.5YR; the value is 4 or 5 dry, 2 or 3 moist; and the chroma is 2 or 3. The reaction is slightly acid through slightly alkaline.

Bw horizon: The hue is 2.5YR through 7.5YR; the value is 3 through 6 dry, 3 through 5 moist; and the chroma is 2 through 6. The texture of the fine-earth fraction is loam or sandy loam with channery rock fragment modifiers in some pedons. The reaction is neutral or slightly alkaline.

Bk horizon: The hue is 2.5YR through 7.5YR; the value is 4 through 6 dry, 3 through 5 moist; and the chroma is 3 through 6. The texture of the fine-earth fraction is loam or sandy loam with channery rock fragment modifiers in some pedons. The calcium carbonate equivalent ranges from 1 to 10 percent. The reaction is slightly alkaline or moderately alkaline.

Moento Series

The Moento series consists of moderately deep, well drained soils on mesas, hills, and in drainageways. These soils formed in alluvium and slope alluvium derived mostly from Dakota and Burro Canyon sandstone. The slopes range from 0 to 15 percent. The elevation ranges from 7,800 to 8,500 feet. The average annual precipitation ranges from 18 to 22 inches. The average annual air temperature ranges from 40 to 46 degrees F.

These soils are fine-loamy, mixed, superactive, frigid Typic Argiustolls.

A typical pedon of Moento loam is in an area of Moento-Detra-Jemco complex, 0 to 15 percent slopes, located about 2,200 feet west and 450 feet south of the northeast corner of sec. 35, T. 40 N., R. 16 W.

A1—0 to 2 inches; dark brown (10YR 3/3) loam, very dark brown (10YR 2/2) moist; weak thin platy structure that parts to weak fine granular; slightly hard, friable, nonsticky and nonplastic; common very fine and fine roots; few fine pores; slightly acid (pH 6.4); clear smooth boundary.

A2—2 to 6 inches; dark brown (10YR 3/3) clay loam, very dark grayish brown (10YR 3/2) moist; weak medium subangular blocky structure; hard, friable, nonsticky and nonplastic; common fine roots; few fine pores; slightly acid (pH 6.4); clear smooth boundary.

BA—6 to 12 inches; brown (10YR 4/3) clay loam, dark brown (10YR 3/3) moist; moderate medium and coarse subangular blocky structure; hard, friable, slightly sticky and slightly plastic; common fine roots; few fine pores; slightly acid (pH 6.2); clear wavy boundary.

Bt1—12 to 21 inches; brown (7.5YR 5/4) clay loam, brown (7.5YR 4/4) moist; moderate medium and coarse subangular blocky structure; hard, firm, sticky and plastic; few very fine roots; few large pores; common prominent clay films on faces of peds; slightly acid (pH 6.2); gradual smooth boundary.

Bt2—21 to 30 inches; strong brown (7.5YR 5/6) sandy clay loam, strong brown (7.5YR 5/8) moist; moderate coarse subangular blocky structure; very hard, firm, slightly sticky and slightly plastic; few very fine roots; few very fine and fine pores; common prominent clay films on faces of peds; slightly acid (pH 6.2); gradual smooth boundary.

C—30 to 36 inches; reddish yellow (7.5YR 6/6) sandy clay loam, reddish yellow (7.5YR 6/8) moist; massive; slightly hard, friable, nonsticky and nonplastic; slightly acid (pH 6.4); abrupt smooth boundary.

R—36 inches; sandstone bedrock, fractured and weathered in the top 2 or 3 inches.

The mollic epipedon is 7 to 16 inches thick. The depth to bedrock is 20 to 40 inches. Gravel content ranges from 0 to 5 percent. The reaction is slightly acid or neutral throughout.

A horizon: The hue is 7.5YR or 10YR; the value is 3 to 5 dry, 2 or 3 moist; and the chroma is 2 or 3.

Bt horizon: The hue is 7.5YR or 10YR; the value is 4 through 6 dry, 3 through 5 moist; and the chroma is 3 through 8. The texture is clay loam or sandy clay loam. The particle-size control section has 20 to 35 percent clay.

C horizon: The hue is 7.5YR or 10YR. The texture is sandy loam or sandy clay loam.

Moran Series

The Moran series consists of very deep, well drained soils on alpine valley fills and mountain slopes. These soils formed in colluvium and slope alluvium derived mostly from rhyolite, tuff and similar volcanic rocks (*Fig. 19*). The slopes range from 10 to 65 percent. The elevation ranges from 11,500 to 13,500 feet. The average annual precipitation ranges from 35 to 45 inches. The average annual air temperature ranges from 28 to 34 degrees F.

These soils are loamy-skeletal, isotic Humic Dystrocryepts.

A typical pedon of Moran very gravelly loam, 30 to 65 percent slopes, is located in Kendall Gulch, in the projected southeast quarter of the northwest quarter of sec. 28, T. 41 N., R. 7 W., an unsectionized area:



Figure 19.—A profile of Moran very gravelly loam showing the surface layer and upper part of the subsoil. Rock fragments make up 35 to 75 percent of the soil.

Oi—0 to 1 inch; organic material.

A—1 inch to 10 inches; reddish gray (5YR 5/2) very gravelly loam, dark reddish brown (5YR 3/2) moist; weak very fine granular structure; soft very friable, nonsticky and nonplastic; 40 percent gravel, 10 percent cobbles, and 3 percent stones; very strongly acid (pH 5.0); clear smooth boundary.

Bw—10 to 27 inches; reddish brown (5YR 5/3), extremely gravelly loam; reddish brown (5YR 4/3) moist; weak fine granular structure; soft, very friable, slightly sticky and slightly plastic; 40 percent gravel, 20 percent cobbles, and 15 percent stones; very strongly acid (pH 4.8); gradual wavy boundary.

C—27 to 61 inches; pinkish gray (5YR 6/2) extremely gravelly loam, dark reddish gray (5YR 4/2) moist; massive; soft, very friable, slightly sticky and slightly plastic; 45 percent gravel, 15 percent cobbles, and 15 percent stones; very strongly acid, (pH 4.8).

The umbric epipedon is 7 to 20 inches thick. Base saturation is 30 to 50 percent. The particle-size control section has 35 to 75 percent rock fragments.

A horizon: The hue is 5YR or 7.5YR; the value is 4 or 5 dry, 2 or 3 moist; and the chroma is 2 or 3. The reaction is very strongly acid through moderately acid.

Bw horizon: The hue is 5YR or 7.5YR; the value is 5 or 6 dry, 3 or 4 moist; and the chroma is 3 through 6. The texture of the fine-earth fraction is loam or sandy loam. The particle-size control section has 18 to 27 percent clay.

The reaction is very strongly acid through moderately acid.

C horizon: The hue is 5YR or 7.5YR. The texture of the fine-earth fraction is loam or sandy loam. The reaction is very strongly acid through moderately acid.

This soil is taxadjunct to the series because it is estimated to have an isotic minerology class rather than a mixed class.

Morapos Series

The Morapos series consists of very deep, well drained soils on mesas and fan remnants. These soils formed in alluvium and slope alluvium derived dominantly from sedimentary rocks. The slopes range from 0 to 15 percent. The elevation ranges from 7,100 to 8,000 feet. Average annual precipitation ranges from 15 to 20 inches, and average annual air temperature ranges from 41 to 45 degrees F.

These soils are fine, smectitic, frigid Typic Argiustolls.

A typical pedon of Morapos loam, 0 to 15 percent slopes, is located about 100 feet west and 35 feet south of the northeast corner of sec. 15, T. 41 N, R. 16 W.:

A—0 to 3 inches; brown (10YR 4/3) loam, dark brown (10YR 3/3) moist; moderate fine granular structure; slightly hard, very friable, slightly sticky and slightly plastic; 5 percent gravel; neutral (pH 7.0); clear smooth boundary.

Bt1—3 to 8 inches; brown (10YR 4/3) clay loam, dark brown (10YR 3/3) moist; moderate medium subangular blocky structure parting to strong fine subangular blocky; hard, friable, sticky and plastic; few distinct clay films on the faces of peds; 5 percent gravel; neutral (pH 7.0); clear smooth boundary.

Bt2—8 to 12 inches; brown (10YR 5/3) clay, dark grayish brown (2.5Y 4/2) moist; moderate coarse prismatic structure parting to moderate medium angular blocky; very hard, firm, sticky and plastic; few distinct clay films on ped faces; 5 percent gravel; neutral (pH 7.0); gradual smooth boundary.

BC—12 to 22 inches; brown (10YR 5/3) clay, dark grayish brown (2.5Y 4/2) moist; weak medium angular blocky structure; very hard, firm, sticky and plastic; 5 percent gravel; strongly effervescent; slightly alkaline (pH 7.4); clear smooth boundary.

Bk1—22 to 37 inches; yellowish brown (10YR 5/4) clay loam, yellowish brown (10YR 5/4) moist; massive; hard, friable, sticky and plastic; 5 percent gravel; few fine soft

masses of calcium carbonate; strongly effervescent; moderately alkaline (pH 7.9); gradual smooth boundary.

Bk2—37 to 60 inches; very pale brown (10YR 7/4) clay loam, yellowish brown (10YR 5/4) moist; massive; hard, friable, sticky and plastic; 5 percent gravel; common medium soft masses of calcium carbonate; strongly effervescent; moderately alkaline (pH 8.2).

Secondary lime is at a depth of 12 to 30 inches. The mollic epipedon is 7 to 15 inches thick. The particle-size control section has 35 to 45 percent clay and 0 to 15 percent rock fragments, most of which are gravel derived from sandstone.

A horizon: The hue is 7.5YR or 10YR; the value is 4 or 5 dry, 2 or 3 moist; and the chroma is 2 or 3. The reaction is neutral.

Bt horizon: The hue is 7.5YR or 2.5Y; the value is 4 through 6 dry, 3 through 5 moist; and the chroma is 2 through 4. The texture is clay loam, silty clay loam, or clay. The reaction is neutral or slightly alkaline.

Bk horizon: The hue is 2.5Y through 7.5YR. It has 2 to 14 percent calcium carbonate. The reaction is moderately alkaline.

Narraguinnep Series

The Narraguinnep series consists of very deep, well drained soils on alluvial fans, fan remnants, mesas and mountain slopes. These soils formed in alluvium and slope alluvium derived dominantly from shale. The slopes range from 0 to 50 percent. The elevation ranges from 7,600 to 8,500 feet. The average annual precipitation ranges from 17 to 25 inches. The average annual air temperature ranges from 40 to 44 degrees F.

These soils are fine, smectitic, frigid Vertic Haplustolls.

A typical pedon of Narraguinnep clay loam, 15 to 50 percent slopes, is located in the northwest quarter of the southwest quarter of sec. 33, T. 41 N, R. 15 W.:

A—0 to 6 inches; dark grayish brown (10YR 4/2) clay loam, very dark grayish brown (10YR 3/2) moist; moderate medium granular structure; hard, friable, sticky and plastic; many fine roots; neutral (pH 7.2); clear smooth boundary.

Bw1—6 to 17 inches; grayish brown (10YR 5/2) clay, very dark grayish brown (10YR 3/2) moist; moderate medium subangular blocky structure, parting to moderate fine subangular blocky; very hard, very firm, very sticky and very plastic; abundant fine roots; neutral (pH 7.2); clear smooth boundary.

Bw2—17 to 23 inches; grayish brown (10YR 5/2) clay, brown (10YR 4/3) moist; moderate medium subangular blocky structure; very hard, very firm, very sticky and very plastic; 5 percent gravel; few fine roots; strongly effervescent; slightly alkaline (pH 7.8); gradual smooth boundary.

Bk1—23 to 30 inches; grayish brown (10YR 5/2) clay loam, brown (10YR 4/3) moist; weak medium subangular blocky structure; very hard, firm, very sticky and very plastic; 10 percent gravel and 2 percent cobbles; few fine roots; violently effervescent; moderately alkaline (pH 8.0); clear smooth boundary.

Bk2—30 to 60 inches; pale brown (10YR 6/3) clay, dark grayish brown (10YR 4/2) moist; massive; hard, firm, sticky and plastic; 13 percent gravel; few fine roots; violently effervescent; moderately alkaline (pH 8.0).

The thickness of the mollic epipedon is 16 to 24 inches. The depth to calcareous material ranges from 12 to 24 inches. Calcium carbonate usually is disseminated but is visible as seams in some pedons. The particle-size control section has 35 to 50 percent clay and 0 to 15 percent rock fragments. Linear extensibility ranges from 6 to 9 from the surface to 40 inches.

A horizon: The hue is 10YR or 2.5Y; the value is 3 through 5 dry, 2 or 3 moist; and the chroma is 1 through 3. The reaction is neutral or slightly alkaline.

Bw horizon: The hue is 10YR or 2.5Y; the value is 4 or 5 dry, 3 or 4 moist; and the chroma is 1 through 3. The reaction is neutral or slightly alkaline. The texture is clay loam or clay.

Bk horizon: The hue is 10YR through 5Y; the value is 5 through 7 dry, 3 through 5 moist; and the chroma is 2 through 4. The texture is silty clay loam, clay loam, or clay.

Needleton Series

The Needleton series consists of very deep, well drained soils on mountain slopes and fan remnants. These soils formed in slope alluvium, colluvium, and alluvium derived mostly from volcanic and sedimentary rocks. The slopes range from 5 to 90 percent. The elevation ranges from 8,500 to 11,500 feet. The average annual precipitation ranges from 30 to 45 inches. The average annual air temperature ranges from 32 to 38 degrees F.

These soils are loamy-skeletal, mixed, superactive Eutric Haplocryalfs.

A typical pedon of Needleton loam is in an area of Needleton-Haviland Complex, 30 to 60 percent slopes, located along Forest Service road 580, about 1,250 feet north and 1,000 feet west of the southeast corner of sec. 16, T. 39 N., R. 9 W.:

Oi—0 to 2 inches; partially decomposed organic material.

E—2 to 16 inches; light reddish brown (5YR 6/3) loam, reddish brown (5YR 4/3) moist; moderate very fine granular structure, soft, very friable, nonsticky and nonplastic; 7 percent gravel, 5 percent cobbles, and 1 percent stones; strongly acid (pH 5.4); clear smooth boundary.

Bt/E—16 to 26 inches; (60 percent B) reddish brown (2.5YR 5/4) very cobbly sandy clay loam, dark reddish brown (2.5YR 3/4) moist, and (40 percent E) light reddish brown (2.5YR 6/4) very cobbly loam, reddish brown (2.5YR 5/4) moist; weak medium subangular blocky structure that parts to moderate fine granular; slightly hard, very friable, slightly sticky and slightly plastic; few faint clay films on faces of peds of the B part; 20 percent gravel, 20 percent cobbles, and 10 percent stones; slightly acid (pH 6.2) gradual wavy boundary.

Bt1—26 to 48 inches; reddish brown (2.5YR 5/4), very stony sandy clay loam, reddish brown (2.5YR 4/4) moist; moderate medium subangular blocky structure that parts to strong medium granular; very hard, friable, sticky and plastic; few distinct clay films on faces of peds; 15 percent gravel, 20 percent cobbles, and 20 percent stones; slightly acid (pH 6.2); clear wavy boundary.

Bt2—48 to 62 inches; reddish brown (2.5YR 5/4), very cobbly clay loam, reddish brown (2.5YR 4/4) moist; moderate medium subangular blocky structure; very hard, firm, sticky and plastic; many prominent clay films on faces of peds; 15 percent gravel, 15 percent cobbles, and 10 percent stones; moderately acid (pH 6.0).

The particle-size control section has 18 to 35 percent clay and 35 to 75 percent rock fragments.

E horizon: The hue is 2.5YR through 7.5YR; the value is 6 or 7 dry, 4 or 5 moist; and the chroma is 3 or 4. The reaction is strongly acid or moderately acid.

Bt/E horizon:

Bt part: The hue is 2.5YR or 5YR; the value is 5 or 6 dry, 3 to 5 moist; and the chroma is 3 through 6 dry or moist. The texture of the fine-earth fraction is sandy clay loam, clay loam, or loam.

E part: The hue is 2.5YR through 7.5YR; the value is 6 or 7 dry, 4 or 5 moist; and the chroma is 3 or 4 dry or moist. The texture of the fine-earth fraction is loam or sandy loam. The particle-size control section has 35 to 75 percent rock fragments. The reaction is very strongly acid through slightly acid.

Bt horizon: The hue is 2.5YR through 5YR; the value is 5 or 6 dry, 4 or 5 moist; and the chroma is 3 through 6. The texture of the fine-earth fraction typically is sandy clay loam, clay loam, or loam with rock fragment modifiers. The particle-size control section has 18 to 35 percent clay. The reaction is very strongly acid through slightly acid.

Nizhoni Series

The Nizhoni series consists of very shallow, well drained soils on mesas, structural benches and escarpments. These soils formed in residuum derived dominantly from sandstone. The slopes range from 1 to 50 percent. The elevation ranges from 6,600 to 7,200 feet. The average annual precipitation ranges from 13 to 15 inches, and the average annual air temperature ranges from 45 to 49 degrees F.

These soils are loamy, mixed, superactive, calcareous, mesic Lithic Ustorthents.

A typical pedon of Nizhoni sandy loam is in an area of Nizhoni-Arabrab-Rock outcrop complex, 1 to 50 percent slopes, located about 1,200 feet west and 700 feet north of the southeast corner of sec. 2, T. 43 N., R. 19 W., San Miguel Soil Survey Area, Colorado:

A—0 to 4 inches; reddish brown (5YR 5/4) sandy loam, dark reddish brown (5YR 3/4) moist; weak fine granular structure; soft, very friable, slightly sticky and plastic; strongly effervescent; moderately alkaline (pH 8.0); clear smooth boundary.

Bk—4 to 8 inches; reddish brown (5YR 5/4) sandy loam, dark reddish brown (5YR 3/4) moist; weak medium subangular blocky structure; soft, very friable, slightly sticky and plastic; few visible fine threads of calcium carbonate; strongly effervescent; moderately alkaline (pH 8.2); abrupt smooth boundary.

R—8 inches; hard sandstone.

Bedrock is at a depth of 5 to 10 inches. Calcium carbonate is at a depth of 0 to 7 inches. The particle-size control section has 0 to 15 percent rock fragments, most of which are gravel-sized.

A horizon: The hue is 5YR; the value is 5 or 6 dry, 3 through 5 moist; and the chroma is 3 or 4. The reaction is slightly alkaline or moderately alkaline.

Bk horizon: The hue is 5YR; the value is 5 or 6 dry, 3 or 4 moist; and the chroma is 3 or 4. The texture is sandy loam or fine sandy loam. The particle-size control section has 10 to 18 percent clay. The reaction is moderately alkaline.

This soil is taxadjunct to the series because the activity class is estimated to be superactive rather than active.

Nordicol Series

The Nordicol series consists of very deep, well drained soils on mountain slopes and mesas. These soils formed in colluvium and slope alluvium derived mostly from sandstone, quartz diorite, and volcanic rocks. The slopes range from 5 to 75 percent. The elevation ranges from 8,000 to 11,000 feet. The average annual precipitation ranges from 20 to 40 inches. The average annual air temperature ranges from 35 to 42 degrees F.

These soils typically are loamy-skeletal, mixed, superactive Pachic Palecryolls.*

A typical pedon of Nordicol very stony sandy loam, 6 to 25 percent slopes, is located in the southeast quarter of the southeast quarter of sec. 36, T. 36 N., R. 9 W.:

Oi—0 to 1 inch; organic mat of leaves, needles and roots.

A1—1 inch to 7 inches; dark grayish brown (10YR 4/2) very stony sandy loam, very

dark brown (10YR 2/2) moist; moderate fine granular structure; soft, very friable, nonsticky and nonplastic; 10 percent gravel, 10 percent cobbles, and 20 percent stones; neutral (pH 6.8), clear smooth boundary.

A2—7 to 20 inches; dark grayish brown (10YR 4/2) very stony loam; very dark brown (10YR 2/2) moist; weak medium subangular blocky structure that parts to moderate fine granular; soft, very friable, nonsticky and nonplastic; 5 percent gravel, 10 percent cobbles, and 25 percent stones; neutral (pH 6.8), clear smooth boundary.

E—20 to 28 inches, light brown (7.5YR 6/4) very stony sandy loam, brown (7.5YR 5/4) moist; moderate medium granular structure; slightly hard, very friable, nonsticky and nonplastic; 10 percent gravel, 15 percent cobbles, and 25 percent stones; neutral (pH 6.6); gradual smooth boundary.

Bt—28 to 52 inches; brown (7.5YR 5/4) very stony sandy clay loam, brown (7.5YR 4/4) moist; moderate medium subangular blocky structure that parts to weak fine granular; hard, friable, slightly sticky and slightly plastic; few distinct clay films on faces of peds; 10 percent gravel, 15 percent cobbles, and 25 percent stones; neutral (pH 6.8); gradual wavy boundary.

C—52 to 61 inches; light yellowish brown (10YR 6/4) extremely stony sandy loam, yellowish brown (10YR 5/4) moist; massive; slightly hard, very firm, nonsticky and nonplastic; 10 percent gravel, 25 percent cobbles, and 35 percent stones; neutral (pH 6.8).

The mollic epipedon is 10 to 19 inches thick. The depth to the top of the argillic horizon is 26 to 45 inches from the mineral soil surface. The particle-size control section has 18 to 35 percent clay and 35 to 75 percent rock fragments.

A horizon: The hue is 7.5YR or 10YR; the value is 3 or 4 dry, 2 or 3 moist; and the chroma is 2 or 3. The texture of the fine-earth fraction is sandy loam or loam with rock modifiers of very stony, very cobbly, or extremely stony. The reaction is slightly acid or neutral.

E horizon: The hue is 7.5YR or 10YR; the value is 6 or 7 dry, 4 or 5 moist; and the chroma is 4 through 6. The texture of the fine-earth fraction is sandy loam or sandy clay loam with rock modifiers. The reaction is slightly acid or neutral.

Bt horizon: The hue is 7.5YR or 10YR; the value is 4 or 5 dry, 3 or 4 moist; and the chroma is 4 through 6. The texture of the fine-earth fraction is sandy clay loam, clay loam, or loam with rock modifiers. The reaction is moderately acid through neutral.

C horizon: The hue is 7.5YR or 10YR; the value is 5 or 6 dry, 4 or 5 moist; and the chroma is 3 through 6. The reaction is slightly acid or neutral.

* In map units 605, 618, 623, and 730 this soil is a taxadjunct because it has a thicker mollic epipedon (Pachic subgroup). In map units 619, 707, and 727 this soil is taxadjunct because the moisture regime subclass is more moist (a typic udic moisture regime subclass); in these map units the classification is loamy-skeletal, mixed, superactive Typic Palecryolls.

Nortez Series

The Nortez series consists of moderately deep, well drained soils on mesas and hills. These soils formed in eolian material derived from sandstone and are over sandstone. The slopes range from 0 to 15 percent. The elevation ranges from 7,100 to 8,500 feet. Average annual precipitation ranges from 15 to 20 inches, and the annual air temperature ranges from 40 to 45 degrees F.

These soils are fine, smectitic, frigid Typic Argiustolls.

A typical pedon of Nortez loam in an area of Granath-Nortez complex, 0 to 15 percent slopes, is located about 20 feet west and 1,000 feet south of the northeast corner of sec. 17, T. 38 N., R. 15 W.:

A—0 to 3 inches; reddish brown (5YR 4/3) loam, dark reddish brown (5YR 3/3) moist; weak fine granular structure; soft, very friable, nonsticky and slightly plastic; neutral (pH 6.8); clear smooth boundary.

AB—3 to 10 inches; reddish brown (5YR 4/3) clay loam, dark reddish brown (5YR 3/3) moist; moderate medium subangular blocky structure; very hard, firm, sticky and plastic; neutral (pH 6.8); abrupt smooth boundary.

Bt1—10 to 23 inches; yellowish red (5YR 4/6) clay loam, yellowish red (5YR 4/6) moist; strong medium prismatic structure parting to strong medium angular blocky; extremely hard, firm, very sticky and very plastic; few distinct clay films on faces of peds; neutral (pH 6.8); gradual smooth boundary.

Bt2—23 to 28 inches; yellowish red (5YR 4/6) clay loam, yellowish red (5YR 4/6) moist; strong medium prismatic structure parting to strong medium angular blocky; extremely hard, firm, very sticky and very plastic; common distinct clay films on faces of peds; neutral (pH 6.8); abrupt smooth boundary.

Bt3—28 to 32 inches; yellowish red (5YR 5/6) clay loam, yellowish red (5YR 4/6) moist; strong coarse prismatic structure parting to strong medium angular blocky; extremely hard, firm, sticky and plastic; many prominent clay films on faces of peds; neutral (pH 6.8).

2R—32 inches; hard fractured Dakota sandstone, weathered in the upper part.

A lithic contact is at a depth of 20 to 40 inches. The mollic epipedon is 7 to 16 inches thick. The particle-size control section has 0 to 15 percent rock fragments.

A horizon: The hue is 5YR through 10YR; the value is 3 through 5 dry, 2 or 3 moist; and the chroma is 2 or 3. The reaction is neutral or slightly alkaline.

Bt horizon: The hue is 5YR or 7.5YR; the value is 4 through 6 dry, 3 through 5 moist; and the chroma is 3 through 6. The texture is clay loam or clay. The particle-size control section has 35 to 60 percent clay.

The reaction is neutral or slightly alkaline. Some areas have calcium carbonate at the bedrock contact and these horizons are moderately alkaline.

Ohwiler Series

The Ohwiler series consists of very deep, well drained soils on mountain slopes and in mountain valleys. These soils formed in slope alluvium derived from mixed sources, mostly sandstone and shale. The slopes range from 3 to 30 percent. The elevation ranges from 7,700 to 8,500 feet. Average annual precipitation ranges from 20 to 25 inches, and average annual air temperature ranges from 40 to 45 degrees F.

These soils are fine-loamy, mixed, superactive, frigid Pachic Argiustolls.

A typical pedon of Ohwiler loam, 12 to 30 percent slopes, is located in the northeast quarter of the southwest quarter of sec. 16, T. 37 N., R. 8 W.:

A1—0 to 8 inches; dark grayish brown (10YR 4/2) loam, very dark brown (10YR 2/2) moist; moderate fine granular structure; soft, very friable, nonsticky and nonplastic; many fine and very fine roots; many fine pores; neutral (pH 6.8); clear smooth boundary.

A2—8 to 15 inches; dark grayish brown (10YR 4/2) loam, very dark brown (10YR 2/2) moist; weak medium subangular blocky structure parting to moderate medium granular; soft, very friable, slightly sticky and non plastic; many fine and very fine roots; many fine pores; neutral (pH 6.8); clear smooth boundary.

Bt1—15 to 30 inches; dark grayish brown (10YR 4/2) clay loam, very dark grayish brown (10YR 3/2) moist; moderate medium prismatic structure parting to moderate medium subangular blocky; slightly hard, friable, slightly sticky and slightly plastic; common distinct clay films on faces of peds; few fine roots; few fine pores; neutral (pH 7.0); gradual smooth boundary.

Bt2—30 to 40 inches; grayish brown (10YR 5/2) clay loam, very dark grayish brown

(10YR 3/2) moist; weak coarse prismatic structure parting to moderate medium subangular blocky; hard, firm, sticky and plastic; common distinct clay films on faces of peds; 5 percent gravel; neutral (pH 7.0); gradual wavy boundary.

BC—40 to 52 inches; brown (10YR 5/3) loam, brown (10YR 4/3) moist; weak medium subangular blocky structure; slightly hard, very friable, slightly sticky and slightly plastic; 10 percent gravel; neutral (pH 7.2); gradual wavy boundary.

C—52 to 60 inches; pale brown (10YR 6/3) loam, brown (10YR 4/3) moist; massive; slightly hard, very friable, 10 percent gravel; nonsticky and nonplastic; neutral (pH 7.0).

The mollic epipedon ranges from 16 to 45 inches thick and may include part or the entire Bt horizon. The particle-size control section has 24 to 35 percent clay and 0 to 15 percent rock fragments. The reaction is slightly acid or neutral throughout.

A horizon: The hue is 10YR or 2.5Y; the value is 3 through 5 dry, 2 or 3 moist; and the chroma is 1 through 3.

Bt horizon: The hue is 10YR or 2.5Y; the value is 3 through 6 dry, 2 through 5 moist; and the chroma is 1 through 4. The texture is loam, clay loam, or sandy clay loam.

C horizon: The hue is 10YR or 2.5Y.

Ormiston Series

The Ormiston series consists of deep well drained soils on mesas, hills, and canyon side slopes. These soils formed in slope alluvium, colluvium, and eolian material derived dominantly from sandstone. The slopes range from 0 to 30 percent. The elevation ranges from 7,100 to 8,500 feet. Average annual precipitation ranges from 15 to 20 inches, and average annual air temperature ranges from 40 to 45 degrees F.

These soils are clayey-skeletal, smectitic, frigid Calcic Haplustalfs.

A typical pedon of Ormiston extremely stony loam is in an area of Ormiston-Granath complex, 1 to 12 percent slopes, located about 2,400 feet east and 400 feet north of the southwest corner of sec. 36, T. 41 N., R. 18 W., Cortez Soil Survey Area, Colorado.

A1—0 to 3 inches; brown (7.5YR 4/4) extremely stony loam, dark brown (7.5YR 3/2) moist; weak thick platy structure; soft, very friable, nonsticky and nonplastic; 20 percent gravel, 20 percent cobbles, and 25 percent stones; neutral (pH 7.0); clear wavy boundary.

A2—3 to 7 inches; brown (7.5YR 5/4) very stony clay loam, dark brown (7.5YR 3/4) moist; moderate medium subangular blocky structure; hard, friable, slightly sticky and slightly plastic; 10 percent gravel, 15 percent cobbles, and 20 percent stones; neutral (pH 7.0); clear wavy boundary.

Bt1—7 to 24 inches; reddish brown (5YR 5/4) very stony clay loam, reddish brown (5YR 4/4) moist; strong medium prismatic structure parting to moderate medium angular blocky; very hard, very firm, sticky and plastic; 10 percent gravel, 20 percent cobbles, and 20 percent stones; slightly alkaline (pH 7.4); clear irregular boundary.

Bt2—24 to 32 inches; reddish brown (5YR 5/4) stony clay loam, yellowish red (5YR 5/6) moist; strong medium angular blocky structure; very hard, very firm, sticky and plastic; many distinct clay films on faces of peds; 5 percent gravel, 15 percent cobbles, and 10 percent stones; slightly alkaline (pH 7.4); abrupt wavy boundary.

Bk—32 to 44; pinkish white (5YR 8/2) stony clay loam; pink (5YR 7/3) moist; massive; hard, firm, slightly sticky and slightly plastic; 5 percent gravel, 5 percent cobbles, and 5 percent stones; calcareous; disseminated calcium carbonate; 33 percent

calcium carbonate equivalent; moderately alkaline (pH 8.0); clear smooth boundary.

2R—44 inches; hard Dakota sandstone.

The depth to bedrock is 40 to 60 inches. The particle-size control section has 35 to 60 percent clay and 35 to 80 percent sandstone rock fragments. Secondary lime is at a depth of 20 to 40 inches.

A horizon: The hue is 5YR or 7.5YR; the value is 3 through 5 dry, 2 through 4 moist; and the chroma is 2 through 4. The reaction is neutral.

Bt horizon: The hue is 5YR; the value is 4 through 6 dry, 3 through 5 moist; and the chroma is 4 through 6. The texture of the fine-earth fraction is clay loam or clay with stony, very stony, or extremely stony rock modifiers. The reaction is neutral or slightly alkaline. A Btk horizon is present in some pedons.

Bk horizon: The hue is 7.5YR or 5YR. The calcium carbonate equivalent ranges from 15 to 40 percent.

Pagoda Series

The Pagoda series consists of very deep, well drained soils on mesas and hills. These soils formed in slope alluvium derived dominantly from shale. The slopes range from 0 to 30 percent. The elevation ranges from 7,800 to 8,200 feet. Average annual precipitation ranges from 16 to 20 inches, and average annual air temperature ranges from 40 to 44 degrees F.

These soils are fine, smectitic, frigid Vertic Argiustolls.

A typical pedon of Pagoda loam is in an area of Herm-Pagoda complex, 0 to 15 percent slopes, located about 2,600 feet east and 1,700 feet south of the northwest corner of sec.15, T.41 N., R.16 W.:

Oi—0 to 1 inch; slightly decomposed leaf litter and roots.

A—1 inch to 5 inches; dark grayish brown (10YR 4/2) loam, black (10YR 2/1) moist; moderate medium granular structure; slightly hard, very friable, sticky and plastic; neutral (pH 7.2); clear smooth boundary.

Bt1—5 to 16 inches; brown (10YR 4/3) clay loam, very dark grayish brown (10YR 3/2) moist; moderate medium subangular blocky structure parting to strong fine subangular blocky; hard, friable, sticky and plastic; few distinct clay films on faces of peds; neutral (pH 7.2); clear smooth boundary.

Bt2—16 to 21 inches; brown (10YR 4/3) clay loam, dark brown (10YR 3/3) moist; strong medium subangular blocky structure; hard, firm, sticky and plastic; common distinct clay films on faces of peds; neutral (pH 7.2); clear smooth boundary.

Bk1—21 to 32 inches; grayish brown (2.5Y 5/2) clay loam, dark grayish brown (2.5Y 4/2) moist; massive; very hard, very firm, sticky and plastic; strongly effervescent; calcium carbonate disseminated; moderately alkaline (pH 8.2); gradual smooth boundary.

Bk2—32 to 61 inches; light brownish gray (2.5Y 6/2) clay loam, dark grayish brown (2.5Y 4/2) moist; massive; very hard, very firm, sticky and plastic; violently effervescent; calcium carbonate disseminated and in soft masses; moderately alkaline (pH 8.2).

The mollic epipedon is 16 to 24 inches thick and may include part or all of the Bt horizons. The particle-size control section has 0 to 5 percent rock fragments. Linear extensibility is estimated to range from 6.0 to 8.0 from the surface to 40 inches.

A horizon: The hue is 10YR or 7.5YR; the value is 4 or 5 dry, 2 or 3 moist; and the chroma is 1 through 3. The texture is loam or clay loam. The reaction is neutral or slightly alkaline.

Bt horizon: The hue is 10YR through 5Y; the value is 4 through 7 dry, 3 through 6 moist; and the chroma is 2 through 4. The texture is clay loam or clay. The particle-size control section has 35 to 50 percent clay. The reaction is neutral or slightly alkaline.

Bk horizon: The hue is 10YR through 5Y. The texture is clay loam or clay. The calcium carbonate equivalent ranges from 1 to 10 percent. The reaction is moderately alkaline.

Papaspila Series

The Papaspila series consists of very deep, well drained soils on mesas and structural benches. These soils formed in slope alluvium derived dominantly from diorite. The slopes range from 0 to 15 percent. The elevation ranges from 8,500 to 10,000 feet. Average annual precipitation ranges from 25 to 35 inches, and average annual air temperature ranges from 34 to 40 degrees F.

These soils are loamy-skeletal, mixed, superactive Pachic Haplocryolls.

A typical pedon of Papaspila loam, 0 to 15 percent slopes, is located about 2,100 feet south and 1,500 feet west of the northeast corner of sec. 9, T. 37 N., R. 12 W.:

- A1—0 to 4 inches; grayish brown (10YR 5/2) loam, black (10YR 2/1) moist; weak fine subangular blocky structure parting to weak fine granular; hard, friable, nonsticky and slightly plastic; many very fine, fine, and few medium roots; many very fine continuous vertical pores; 5 percent gravel; neutral (pH 7.0); clear wavy boundary.
- A2—4 to 18 inches; grayish brown (10YR 5/2) loam, very dark brown (10YR 2/2) moist; moderate fine subangular blocky structure; hard, friable, slightly sticky and slightly plastic; many very fine roots; many very fine continuous vertical pores; 5 percent gravel; neutral (pH 7.0); gradual wavy boundary.
- A3—18 to 25 inches; grayish brown (10YR 5/2) gravelly loam, very dark grayish brown (10YR 3/2) moist; weak medium subangular blocky structure; hard, friable, slightly sticky and slightly plastic; many very fine roots; many very fine continuous pores; 15 percent gravel, 10 percent cobbles, and 5 percent stones; neutral (pH 7.0); gradual wavy boundary.
- E1—25 to 33 inches; very pale brown (10YR 7/3) very cobbly silt loam, yellowish brown (10YR 5/4) moist; moderate medium subangular blocky structure parting to moderate fine subangular blocky; very hard, very firm, sticky and plastic; common very fine and fine roots; many very fine continuous vertical pores; 10 percent gravel, 35 percent cobbles, and 10 percent stones; neutral (pH 6.8); gradual irregular boundary.
- E2—33 to 39 inches; very pale brown (10YR 7/3) extremely stony clay loam, yellowish brown (10YR 5/4) moist; common medium distinct pinkish white (7.5YR 8/2) lithochromic mottles; moderate medium subangular blocky structure parting to moderate fine subangular blocky; very hard, firm, sticky and plastic; common fine roots; common very fine continuous vertical pores; 15 percent gravel, 35 percent cobbles, and 25 percent stones; neutral (pH 7.0); gradual irregular boundary.
- B/E—39 to 54 inches; (65 percent B) reddish yellow (7.5YR 6/6) extremely stony clay loam, brown (7.5YR 5/4) moist; (35 percent E) pink (7.5YR 7/4) extremely stony clay loam, brown (7.5YR 4/4) moist; many medium distinct pinkish white (7.5YR 8/2) lithochromic mottles; moderate medium to coarse subangular blocky structure; very hard, very firm, sticky and plastic; few very fine and fine roots; common very fine continuous vertical pores; many prominent clay films on faces of peds and as bridges holding mineral grains together; 15 percent gravel, 35 percent cobbles, and 25 percent stones; neutral (pH 7.0); gradual wavy boundary.
- C—54 to 60 inches, reddish yellow (7.5YR 7/8) extremely stony clay loam, strong brown (7.5YR 5/6) moist; common fine distinct strong brown (7.5YR 5/8)

lithochromic mottles moist; massive; very hard, friable, slightly sticky and plastic; common very fine continuous vertical pores; 15 percent gravel, 30 percent cobbles, and 25 percent stones; neutral (pH 6.8).

The particle-size control section has 20 to 35 percent clay and 35 to 80 percent rock fragments. The texture of the fine-earth fraction is loam, silt loam, or clay loam. The B/E horizon lacks clay increase to qualify as an argillic horizon. The reaction is neutral throughout.

A horizon: The hue is 7.5YR or 10YR; the value is 4 or 5 dry, 2 or 3 moist; and the chroma is 1 or 2.

E horizon: The hue is 7.5YR or 10YR; the value is 6 or 7 dry, 4 through 6 moist; and the chroma is 3 or 4.

B/E horizon: The hue is 7.5YR or 10YR.

B part: The value is 5 or 6 dry, 4 or 5 moist; and the chroma is 4 through 6. The texture of the fine-earth fraction is clay loam or loam.

E part: The value is 6 or 7 dry, 5 or 6 moist; and the chroma is 3 or 4. The texture of the fine-earth fraction is clay loam or loam. The particle-size control section has 35 to 80 percent rock fragments.

C horizon: The hue is 2.5Y through 7.5YR. The texture of the fine-earth fraction is clay loam. The particle-size control section has 35 to 80 percent rock fragments.

Payter Series

The Payter series consists of very deep, well drained soils on alluvial fans. These soils formed in alluvium derived dominantly from sandstone. The slopes range from 3 to 15 percent. The elevation ranges from 6,300 to 6,800 feet. Average annual precipitation ranges from 13 to 15 inches, and average annual air temperature ranges from 47 to 50 degrees F.

These soils are coarse-loamy, mixed, superactive, mesic Cumulic Haplustolls.

A typical pedon of Payter sandy loam, 3 to 15 percent slopes, is located about 3,100 feet east and 3,800 feet south of the northwest corner of sec. 34, T. 39 N., R. 16 W.:

A1—0 to 3 inches; brown (10YR 5/3) sandy loam, very dark brown (10YR 2/2) moist; weak fine subangular blocky structure parting to weak fine granular; soft, very friable, nonsticky and nonplastic; many fine and few medium roots; 5 percent gravel; strongly effervescent; slightly alkaline (pH 7.4); clear smooth boundary.

A2—3 to 6 inches; yellowish brown (10YR 5/4) sandy loam, very dark brown (10YR 2/2) moist; moderate fine subangular blocky structure parting to weak fine granular; slightly hard, friable, nonsticky and nonplastic; common fine and few medium roots; strongly effervescent; slightly alkaline (pH 7.4); clear smooth boundary.

A3—6 to 11 inches; brown (10YR 5/3) sandy loam, very dark grayish brown (10YR 3/2) moist; weak fine subangular blocky structure parting to weak fine granular; soft, very friable, nonsticky and nonplastic; few fine and few medium roots; 5 percent gravel; strongly effervescent; slightly alkaline (pH 7.4); gradual wavy boundary.

C1—11 to 17 inches; yellowish brown (10YR 5/4) sandy loam, dark brown (10YR 3/3) moist; weak fine granular structure; loose, loose, nonsticky and nonplastic; violently effervescent; slightly alkaline (pH 7.6); gradual wavy boundary.

C2—17 to 39 inches; grayish brown (10YR 5/2) sandy loam, dark brown (10YR 3/3) moist; weak fine subangular blocky structure parting to weak fine granular; soft, very friable, nonsticky and nonplastic; violently effervescent; moderately alkaline (pH 8.0); gradual wavy boundary.

C3—39 to 60 inches; brown (10YR 5/3) sandy loam, brown (10YR 4/3) moist; weak fine subangular blocky structure parting to weak very fine granular; soft, very friable, nonsticky and nonplastic; violently effervescent; moderately alkaline (pH 8.2).

The particle-size control section has 10 to 18 percent clay and 0 to 15 percent rock fragments. The mollic epipedon is 20 to 60 inches thick.

A horizon: The hue is 7.5YR or 10YR; the value is 4 or 5 dry, 2 or 3 moist; and the chroma is 2 to 4 dry, 2 or 3 moist. The reaction is neutral or slightly alkaline.

C horizon: The hue is 7.5YR or 10YR; the value is 4 or 6 dry, 2 to 4 moist; and the chroma is 2 to 4 dry, 2 or 3 moist. The particle-size control section has 10 to 18 percent clay. The reaction is slightly alkaline or moderately alkaline.

Peeler Series

The Peeler series consists of very deep, well drained soils on mesas, structural benches, and mountain slopes. These soils formed in slope alluvium and colluvium derived dominantly from diorite. The slopes range from 2 to 30 percent. The elevation ranges from 10,000 to 11,500 feet. Average annual precipitation ranges from 30 to 45 inches, and average annual air temperature ranges from 32 to 38 degrees F.

These soils are fine-loamy, mixed, superactive Mollic Haplocryalfs.

A typical pedon of Peeler silt loam is in an area of Blacksnag-Peeler complex, 2 to 15 percent slopes, located about 2,350 feet east and 2,000 feet north of the southwest corner of sec. 2, T. 37 N., R. 12 W.:

Oe—0 to 2 inches; partially decomposed needles and twigs.

A1—2 to 5 inches; grayish brown (10YR 5/2) silt loam, very dark grayish brown (10YR 3/2) moist; moderate medium platy structure; slightly hard, friable, slightly sticky and nonplastic; common very fine and fine, few medium and coarse roots; few very fine pores; 5 percent gravel; slightly acid (pH 6.2); clear wavy boundary.

A2—5 to 10 inches; brown (10YR 5/3), silt loam, dark brown (10YR 3/3) moist; weak moderate subangular blocky structure parting to moderate medium granular; slightly hard, friable, slightly sticky and nonplastic; few very fine, medium and coarse roots; few very fine pores; 5 percent gravel and 5 percent cobbles; moderately acid (pH 5.8); gradual wavy boundary.

E1—10 to 18 inches; light brown (7.5YR 6/4) loam, brown (7.5YR 4/4) moist; weak coarse subangular blocky structure parting to moderate medium subangular blocky; slightly hard, friable, slightly sticky and nonplastic; few fine, medium, and coarse roots; few fine pores; 5 percent gravel and 5 percent cobbles; moderately acid (pH 5.8); gradual wavy boundary.

E2—18 to 24 inches; reddish yellow (7.5YR 6/6) cobbly loam, brown (7.5YR 4/4) moist; moderate coarse subangular blocky structure; slightly hard, friable, slightly sticky and nonplastic; few medium and coarse roots; few fine pores; 5 percent gravel and 15 percent cobbles; moderately acid (pH 5.8); gradual wavy boundary.

B/E—24 to 35 inches; (60 percent B) reddish yellow (7.5YR 7/6) stony loam, strong brown (7.5YR 4/6) moist, and (40 percent E) light brown (7.5YR 6/4) stony loam, brown (7.5YR 4/4) moist; moderate coarse subangular blocky structure; slightly hard, friable, slightly sticky and slightly plastic; few distinct clay films on faces of peds of the B part; few medium roots; few fine pores; 5 percent gravel, 10 percent cobbles, and 10 percent stones; moderately acid (pH 5.8); clear wavy boundary.

Bt1—35 to 44 inches; reddish yellow (7.5YR 7/6) loam, strong brown (7.5YR 4/6) moist; moderate medium subangular blocky structure; hard, firm, sticky and slightly plastic; few medium roots; few fine pores; few distinct clay films on faces of peds; 5 percent gravel and 5 percent cobbles; moderately acid (pH 6.0); gradual wavy boundary.

Bt2—44 to 62 inches; strong brown (7.5YR 5/6) loam, strong brown (7.5YR 4/6) moist; moderate medium subangular blocky structure; very hard, very firm, sticky and plastic; few medium roots; few distinct clay films on faces of peds; 5 percent gravel and 5 percent cobbles; moderately acid (pH 6.0).

The particle-size control section has 10 to 35 percent rock fragments.

The depth to the top of the argillic horizon is less than 24 inches from the mineral soil surface. The reaction is moderately acid or slightly acid throughout.

A horizon: The hue is 7.5YR or 10YR; the value is 4 or 5 dry, 2 or 3 moist; and the chroma is 2 or 3.

E horizon: The hue is 7.5YR or 10YR; the value is 6 through 8 dry, 4 or 5 moist; and the chroma is 4 through 6.

B/E horizon: The hue is 7.5YR or 10YR

B part: The value is 5 through 7 dry, 4 through 5 moist; and the chroma is 3 through 6. The texture of the fine-earth fraction is loam or clay loam.

E part: The value is 6 through 8 dry, 4 or 5 moist; and the chroma is 4 through 6. The texture of the fine-earth fraction is loam. The particle-size control section has 0 to 35 percent rock fragments.

Bt horizon: The hue is 7.5YR or 10YR; the value is 5 through 7 dry, 4 through 6 moist; and the chroma is 3 through 6. The texture of the fine-earth fraction is loam or clay loam. The particle-size control section has 18 to 35 percent clay.

This soil is taxadjunct to the series because the B/E horizon does not have the pale colors required for a glossic horizon.

Pescar Series

The Pescar series consists of very deep, somewhat poorly drained soils on flood plains. These soils formed in alluvium derived from mixed sources. The slopes range from 0 to 2 percent. The elevation ranges from 7,100 to 8,000 feet. The average annual precipitation ranges from 18 to 22 inches. The average annual air temperature ranges from 42 to 45 degrees F.

These soils are coarse-loamy over sandy or sandy skeletal, mixed, superactive, calcareous, frigid Aquic Ustifluvents.

A typical pedon of Pescar fine sandy loam is located about 1,800 feet west and 1,400 feet south of the northeast corner of sec. 1, T. 35 N, R. 8 W., La Plata County Soil Survey Area, Colorado.

A—0 to 8 inches; light brownish gray (10YR 6/2) fine sandy loam, dark brown (10YR 4/3) moist; weak, fine granular structure; soft, very friable, nonsticky and nonplastic; slightly effervescent; common medium distinct yellowish brown (10YR 5/4) iron concentrations; slightly alkaline (pH 7.8); clear smooth boundary.

Cg1—8 to 20 inches; light brownish gray (10YR 6/2) fine sandy loam stratified with loam and loamy fine sand, brown (10YR 4/3) moist; massive; soft, very friable, nonsticky and nonplastic; slightly effervescent; common, medium distinct yellowish brown (10YR 5/4) iron concentrations and a few fine faint dark gray (10YR 4/1) iron reductions; moderately alkaline (pH 8.0); clear smooth boundary.

2Cg2—20 to 60 inches; light brownish gray (10YR 6/2) very gravelly sand, dark brown (10YR 4/3) moist; massive; soft, very friable, nonsticky and nonplastic; 45 percent gravel; slightly effervescent; few, fine faint dark gray (10YR 4/1) iron reductions; slightly alkaline (pH 7.8).

The depth to uniformly calcareous material ranges from 0 to 10 inches. A seasonal high water table usually is at a depth of 10 to 20 inches from March through June. The depth to redoximorphic concentrations ranges from 0 to 10 inches, and to redoximorphic depletions from 10 to 20 inches. The depth to the 2Cg2 horizon ranges

from 10 to about 20 inches. The particle-size control section has 0 to 10 percent rock fragments in the upper part of the horizon and 35 to 70 percent in the lower part.

The reaction is neutral to moderately alkaline.

A horizon: The hue is 7.5YR through 5Y; the value is 5 through 7 dry, 4 through 6 moist; and the chroma is 1 through 4.

Cg1 horizon: The hue is 7.5YR through 5Y; the value is 6 or 7 dry, 4 or 5 moist; and the chroma is 2 or 3.

2Cg2 horizon: The hue is 7.5YR or 10YR. The texture of the fine-earth fraction is sand or loamy sand. It has rock fragment modifiers of very gravelly or extremely gravelly.

Pinacol Series

The Pinacol series consists of very deep, well drained soils on hills, mesas, and structural benches. These soils formed in outwash and slope alluvium derived from mixed sources, and have eolian influence in some pedons. The slopes range from 1 to 40 percent. The elevation ranges from 7,200 to 8,500 feet. The average annual precipitation ranges from 20 to 25 inches. The average annual air temperature ranges from 40 to 45 degrees F.

These soils are clayey-skeletal, smectitic, frigid Typic Haplustalfs.

A typical pedon of Pinacol loam, 12 to 40 percent slopes, is located about 500 feet north and 1,100 feet east of the southwest corner of sec. 25, T. 36 N., R. 10 W.:

Oi—0 to 1 inch; organic layer of needles, leaves and roots.

A—1 inch to 4 inches; grayish brown (10YR 5/2) loam, very dark grayish brown (10YR 3/2) moist; moderate fine granular structure; soft, very friable, nonsticky and nonplastic; 2 percent gravel, 2 percent cobbles, and 1 percent stones; slightly acid (pH 6.2), clear smooth boundary.

E—4 to 13 inches; light brown (7.5YR 6/3) loam, brown (7.5YR 4/3) moist; weak fine granular structure; soft, friable, nonsticky and nonplastic; 5 percent gravel, 5 percent cobbles, and 3 percent stones; slightly acid (pH 6.2), clear smooth boundary.

Bt1—13 to 20 inches; brown (7.5YR 5/4) stony clay loam, brown (7.5YR 4/4) moist; moderate medium angular blocky structure that parts to moderate medium subangular blocky; hard, firm, sticky and plastic; few distinct clay films on faces of peds; 5 percent gravel, 10 percent cobbles, and 10 percent stones; slightly acid (pH 6.1), gradual smooth boundary.

Bt2—20 to 33 inches; reddish brown (5YR 5/4) very stony clay loam, reddish brown (5YR 4/4) moist; moderate medium angular blocky structure; hard, firm, sticky and plastic; many distinct clay films on faces of peds; 15 percent gravel, 20 percent cobbles, and 15 percent stones; slightly acid (pH 6.1); gradual smooth boundary.

Bt3—33 to 49 inches; reddish brown (5YR 5/4) very stony clay loam, reddish brown (7.5YR 4/4) moist; strong medium angular blocky structure; hard, firm, sticky and plastic; many distinct clay films on faces of peds; 15 percent gravel, 20 percent cobbles, and 15 percent stones; slightly acid (pH 6.2); gradual wavy boundary.

C—49 to 61 inches; reddish brown (5YR 5/4) very stony clay loam, reddish brown (7.5YR 4/4) moist; massive; hard, firm, sticky and plastic; 15 percent gravel, 20 percent cobbles, and 20 percent stones; slightly acid (pH 6.2)

The particle-size control section has 35 to 50 percent clay and 35 to 80 percent sandstone and granitic rock fragments.

The reaction is slightly acid or neutral.

A horizon: The hue is 7.5YR or 10YR; the value is 3 through 5 dry, 2 or 3 moist; and the chroma is 2 through 4.

E horizon: The hue is 7.5YR or 10YR; the value is 5 through 7 dry, 4 through 6 moist, chroma 2 through 4.

Bt horizon: The hue is 5YR or 7.5YR; the value is 5 or 6 dry, and 4 through 6 moist; and the chroma is 3 through 6. The fine-earth fraction is clay loam, clay, or sandy clay with rock fragment modifiers of stony or cobbly in the upper part and very stony, very cobbly, extremely stony, or extremely cobbly in the lower part.

C horizon: The hue is 5YR or 7.5YR.

Pino Series

The Pino series consists of moderately deep, well drained soils on mesas. These soils formed in slope alluvium derived dominantly from interbedded sandstone and shale. The slopes range from 0 to 15 percent. The elevation ranges from 7,400 to 8,500 feet. The average annual precipitation ranges from 17 to 20 inches, and the average annual air temperature ranges from 41 to 45 degrees F.

These soils are fine, mixed, superactive, frigid Typic Argiustolls.

A typical pedon of Pino loam is in an area of Fivepine-Pino complex, 0 to 15 percent slopes, in the southwest quarter of the northeast quarter of sec. 8, T. 39 N., R. 15 W.

Oi—0 to 1 inch; organic mat of partially decomposed aspen leaves, ponderosa pine needles, and other plant material.

A1—1 inch to 4 inches; dark grayish brown (10YR 4/2) loam, very dark brown (10YR 2/2) moist; weak fine granular structure; soft, very friable, nonsticky and nonplastic; very many fine roots and pores; neutral (pH 6.6); clear smooth boundary.

A2—4 to 12 inches; brown (7.5YR 5/2) loam, dark brown (7.5YR 3/2) moist; moderate medium granular structure; soft, very friable, nonsticky and nonplastic; common roots and pores; neutral (pH 6.6); clear smooth boundary.

Bt1—12 to 15 inches; brown (7.5YR 5/3) clay loam, brown (7.5YR 4/3) moist; weak medium subangular blocky structure parting to moderate fine granular; slightly hard, friable, slightly sticky and slightly plastic; very few faint clay films on faces of peds; few roots and pores; 2 percent stones; neutral (pH 7.0); gradual wavy boundary.

Bt2—15 to 21 inches; brown (7.5YR 5/4) clay loam, brown (7.5YR 4/3) moist; moderate medium subangular blocky structure; hard, firm, sticky and plastic; common distinct clay films on faces of peds; few roots and pores; 2 percent stones; neutral (pH 7.0); gradual wavy boundary.

Bt3—21 to 29 inches; reddish yellow (7.5YR 6/6) clay, reddish yellow (7.5YR 6/6) moist; brown (7.5YR 5/4) mottles from parent material; moderate medium subangular blocky structure; very hard, very firm, sticky and plastic; few distinct clay films on faces of peds; very few roots and pores; 2 percent stones; neutral (pH 7.0); gradual wavy boundary.

C—29 to 34 inches; brownish yellow (10YR 6/6) clay, yellowish brown (10YR 5/6) moist; yellowish brown (10YR 5/4) lithochromic mottles from parent material; massive; very hard, very firm, very sticky and very plastic; very few roots and pores; 2 percent stones; neutral (pH 6.8); gradual irregular boundary.

R—34 inches; sandstone and shale bedrock.

The depth to bedrock ranges from 20 to 40 inches from the mineral soil surface. The particle-size control section has 0 to 15 percent rock fragments. The reaction is neutral or slightly alkaline throughout.

A horizon: The hue is 7.5YR or 10YR; the value is 4 or 5 dry, 2 or 3 moist; and the chroma is 2 or 3.

Bt horizon: The hue is 7.5YR or 10YR; the value is 5 or 6 dry, 3 or 4 moist; and the chroma is 3 through 6. The texture is clay loam, silty clay loam, silty clay, or clay. The particle-size control section has 35 to 50 percent clay.

C horizon: The hue is 7.5YR or 10YR; the value is 6 or 7 dry, 5 or 6 moist; and the chroma is 3 through 6.

Powderhorn Family

The Powderhorn family consists of deep or very deep, well drained soils on mesas. These soils formed in slope alluvium derived from sandstone. The slopes range from 0 to 15 percent. The elevation ranges from 8,500 to 10,000 feet. Average annual precipitation ranges from 25 to 30 inches, and average annual air temperature ranges from 34 to 40 degrees F.

These soils are fine, smectitic Alfic Argicryolls.

A typical pedon of Powderhorn family loam is in an area of Behanco-Powderhorn family complex, 0 to 15 percent slopes, located about 750 feet south and 1,200 feet west of the northeast corner of sec. 35, T. 39 N., R. 13 W.:

Oe—0 to 1 inch; intermediately decomposed leaves, needles, and twigs.

A—1 inch to 4 inches; brown (10YR 5/3) loam, dark brown (10YR 3/3) moist; weak moderate and coarse subangular blocky structure parting to moderate medium granular; very hard, firm, slightly sticky and slightly plastic; common very fine, fine, and medium, and few coarse roots; few very fine pores; 5 percent gravel; strongly acid (pH 5.2); gradual wavy boundary.

AB—4 to 12 inches; brown (10YR 5/3) loam, dark brown (10YR 3/3) moist; moderate medium subangular blocky structure; very hard, firm, slightly sticky and slightly plastic; common very fine, common fine, common medium, and few coarse roots, common very fine and few fine pores; 5 percent gravel and 5 percent cobbles; very strongly acid (pH 5.0); gradual wavy boundary.

B/A—12 to 24 inches; (60 percent B) yellowish brown (10YR 5/4) loam, dark yellowish brown (10YR 4/4) moist; and (40 percent A) brown (10YR 5/3) loam, dark brown (10YR 3/3) moist; strong coarse subangular blocky structure; slightly hard, friable, slightly sticky and slightly plastic; few very fine, common fine and medium, and few coarse roots; common very fine and few fine pores; 5 percent gravel and 5 percent cobbles; very strongly acid (pH 4.8); gradual irregular boundary.

Bt1—24 to 32 inches; very pale brown (10YR 7/3) cobbly clay, pale brown (10YR 6/3) moist; many medium distinct reddish yellow (7.5YR 6/6) lithochromic mottles; moderate medium and coarse prismatic structure parting to strong coarse angular blocky; extremely hard, very firm, very sticky and very plastic; few very fine, fine, and coarse, and common medium roots, few very fine pores; few distinct clay films on faces of peds; 5 percent gravel and 10 percent cobbles; very strongly acid (pH 4.6); gradual wavy boundary.

Bt2—32 to 41 inches; light gray (10YR 7/2) clay, light brownish gray (10YR 6/2) moist; many large prominent strong brown (7.5YR 5/6) lithochromic mottles; moderate coarse angular blocky structure; extremely hard, very firm, very sticky and very plastic; common distinct clay films on faces of peds; few fine and medium roots; 10 percent gravel; extremely acid (pH 4.2); clear wavy boundary.

C—41 to 60 inches; gray (10YR 6/1) clay, gray (10YR 5/1) moist; many medium distinct light brown (7.5YR 6/4) lithochromic mottles; massive; extremely hard, very firm, very sticky and very plastic; extremely acid (pH 4.4); abrupt smooth boundary.

R—60 inches; hard Dakota sandstone.

The mollic epipedon is 10 to 16 inches thick. The depth to bedrock ranges from 40 to 60 inches or more from the mineral soil surface. The particle-size control section has 35 to 60 percent clay and 0 to 35 percent rock fragments.

A horizon: The hue is 7.5YR through 2.5Y; the value is 3 through 5 dry, 2 or 3 moist; and the chroma is 1 through 3. The reaction is very strongly acid through slightly acid.

Bt horizon: The hue is 7.5YR through 2.5Y; the value is 4 through 7 dry, 3 through 6 moist; and the chroma is 2 through 6. The texture of the fine-earth fraction is clay or clay loam with cobbly rock fragment modifiers in some horizons of some pedons. The reaction is extremely acid through moderately acid.

C horizon: The hue is 5YR through 2.5Y. The reaction is extremely acid through strongly acid.

This soil is classified at the family level because the depth ranges from deep to very deep.

Quazar Series

The Quazar series consists of very deep, well drained soils on alluvial fans, moraines, and mountain slopes. These soils formed in alluvium, slope alluvium, and till derived mostly from rhyolite and tuff. The slopes range from 5 to 65 percent. The elevation ranges from 9,000 to 11,500 feet. The average annual precipitation ranges from 26 to 45 inches. The average annual air temperature ranges from 32 to 38 degrees F.

These soils are loamy-skeletal, mixed, superactive Typic Argicryolls.

A typical pedon of Quazar very cobbly loam, 5 to 25 percent slopes, is located north of Silverton in an unsectionized area, in the projected southeast quarter of the northeast quarter of sec. 18, T. 41 N., R. 7 W.:

- A1—0 to 3 inches; dark grayish brown (10YR 4/2) very cobbly loam, very dark grayish brown (10YR 3/2) moist; moderate fine granular structure; soft, friable, slightly sticky and nonplastic; 15 percent gravel, 20 percent cobbles, and 5 percent stones; neutral (pH 6.8); clear smooth boundary.
- A2—3 to 12 inches; dark grayish brown (10YR 4/2) very cobbly loam, very dark grayish brown (10YR 3/2) moist; moderate medium granular structure; soft, friable, slightly sticky and nonplastic; 20 percent gravel, 15 percent cobbles, and 10 percent stones; neutral (pH 6.6); clear wavy boundary.
- Bt—12 to 26 inches; light brown (7.5YR 6/4) extremely gravelly clay loam, brown (7.5YR 4/4) moist; weak medium granular structure; slightly hard, friable, slightly sticky and slightly plastic; common distinct clay films on faces of peds; 40 percent gravel, 15 percent cobbles, and 10 percent stones; slightly acid (pH 6.4); gradual wavy boundary.
- C—26 to 60 inches; brown (7.5YR 4/4) extremely gravelly clay loam, strong brown (7.5YR 4/6) moist; massive; slightly hard, friable, slightly sticky and slightly plastic; 50 percent gravel, 20 percent cobbles, and 10 percent stones; slightly acid (pH 6.4).

The mollic epipedon is 7 to 15 inches thick. The particle-size control section has 25 to 34 percent clay and 40 to 70 percent rock fragments. The reaction is slightly acid or neutral.

A horizon: The hue is 7.5YR or 10YR; the value is 4 or 5 dry, 2 or 3 moist; and the chroma is 1 through 3.

Bt horizon: The hue is 7.5YR or 10YR; the value is 5 or 6 dry, 4 or 5 moist; and the chroma is 2 through 6. The texture of the fine-earth fraction typically is clay loam or

sandy clay loam with rock fragment modifiers of very gravelly, extremely gravelly, very cobbly, or extremely cobbly.

C horizon: The hue is 7.5YR or 10YR.

Ruko Series

The Ruko series consists of shallow, well drained soils on mesas. These soils formed in residuum weathered from shale. The slopes range from 3 to 15 percent. The elevation ranges from 7,500 to 7,800 feet. The average annual precipitation ranges from 18 to 20 inches. The average annual air temperature ranges from 42 to 45 degrees F.

These soils are clayey, smectitic, frigid, shallow Typic Haplustepts.

A typical pedon of Ruko silty clay loam is in an area of Gladlow-Rock outcrop, shale-Ruko family complex, 3 to 15 percent slopes, located in the northeast quarter of the northwest quarter of sec. 1, T. 39 N. R. 15 W.:

- A—0 to 2 inches; brown (10YR 5/3) silty clay loam, brown (10YR 4/3) moist; moderate fine granular structure; loose, very friable, very sticky and plastic; 5 percent gravel; common fine roots; strongly effervescent; moderately alkaline (pH 8.0); clear smooth boundary.
- C—2 to 11 inches; light brownish gray (10YR 6/2) silty clay loam, brown (10YR 5/3) moist; moderate medium subangular blocky structure; hard, firm, very sticky, very plastic; common fine roots; violently effervescent; moderately alkaline (pH 8.0); clear wavy boundary.
- Cr—11 to 21 inches; calcareous Mancos shale.

The depth to shale ranges from 10 to 20 inches. The particle-size control section has 35 to 45 percent clay.

A horizon: The hue is 10YR or 2.5Y; the value is 5 to 7 dry, 4 or 5 moist; and the chroma is 2 through 4.

C horizon: The hue is 10YR or 2.5Y; the value is 5 through 7 dry, 4 or 5 moist; and the chroma is 2 through 4. The texture is clay loam, silty clay loam, or clay.

Runlett Series

The Runlett series consists of moderately deep, well drained soils on mountain slopes, mesas, and structural benches. These soils formed in slope alluvium and residuum derived mostly from limestone, sandstone, and shale. The slopes range from 5 to 45 percent. The elevation ranges from 9,500 to 11,000 feet. The average annual precipitation ranges from 35 to 45 inches. The average annual air temperature ranges from 32 to 38 degrees F.

These soils are fine, smectitic, Pachic Argicryolls.

A typical pedon of Runlett loam in an area of Runlett-Sessions complex, 5 to 30 percent slopes, is located about 1,200 feet north and 3,100 feet east of the southwest corner of sec. 11, T. 37 N., R. 6 W.:

- A1—0 to 14 inches; grayish brown (10YR 5/2) loam, very dark grayish brown (10YR 3/2) moist; moderate medium granular structure; soft, friable, slightly sticky and slightly plastic; 5 percent gravel; slightly acid (pH 6.2); clear smooth boundary.
- A2—14 to 19 inches; brown (7.5YR 5/2) loam, dark brown (7.5YR 3/2) moist; moderate medium granular structure; soft, friable, slightly sticky and slightly plastic; 5 percent gravel; moderately acid (pH 6.0); clear smooth boundary.
- Bt1—19 to 22 inches; brown (7.5YR 5/3) clay loam; brown (7.5YR 4/3) moist; moderate medium subangular blocky structure; hard, firm, sticky and plastic; many prominent clay films on faces of peds; 5 percent gravel; slightly acid (pH 6.4); clear smooth boundary.

Bt2—22 to 27 inches; brown (7.5YR 5/4) clay, brown (7.5YR 4/4) moist; strong medium angular blocky structure; hard, firm, very sticky and very plastic; many prominent clay films on faces of peds; 2 percent cobbles and 5 percent stones; neutral (pH 7.0); abrupt irregular boundary.

R—27 inches; limestone bedrock, fractured and weathered in the upper part, with soil material in cracks and between upper layers of limestone.

The mollic epipedon is 16 to 24 inches thick. The depth to bedrock ranges from 20 to 40 inches.

The particle-size control section has 0 to 20 percent limestone and sandstone rock fragments.

A horizon: The hue is 7.5YR or 10YR; the value is 4 or 5 dry, 2 or 3 moist; and the chroma is 1 through 3.

The particle-size control section has 0 to 15 percent rock fragments.

The reaction is moderately acid or slightly acid.

Bt horizon: The hue is 7.5YR or 10YR; the value is 5 or 6 dry, 4 or 5 moist; and the chroma is 3 through 6. The texture of the fine-earth fraction is clay loam or clay. The particle-size control section has 35 to 50 percent clay. The reaction is moderately acid through neutral.

Ryman Series

The Ryman series consists of very deep, well drained soils on mesas and structural benches. These soils formed in slope alluvium, and residuum derived from shale and sandstone. The slopes range from 1 to 40 percent. The elevation ranges from 8,000 to 11,000 feet. Average annual precipitation ranges from 25 to 35 inches. The average annual air temperature ranges from 35 to 42 degrees F.

These soils are fine, smectitic, Pachic Haplocryolls.

A typical pedon of Ryman silty clay loam is in an area of Ryman-Adel, complex, 1 to 15 percent slopes, located in the southeast quarter of the southwest quarter of sec. 30, T. 12 W, R. 41 N.:

A1—0 to 13 inches; grayish brown (10YR 5/2) silty clay loam, very dark grayish brown (10YR 3/2) moist; moderate medium granular structure; soft, friable, slightly sticky and slightly plastic; many fine roots; neutral (pH 6.8); clear wavy boundary.

A2—13 to 19 inches; grayish brown (10YR 5/2) silty clay loam, dark brown (10YR 3/3) moist; weak medium subangular blocky structure parting to moderate medium granular; slightly hard, friable, slightly sticky and slightly plastic; 5 percent gravel; few fine roots; neutral (pH 6.8); clear smooth boundary.

C1—19 to 36 inches; variable yellowish brown (10YR 5/4) and light brownish gray (10YR 6/2) clay, yellowish brown (10YR 5/6) and brown (10YR 5/3) moist; massive; very hard, very firm, very sticky and very plastic; 5 percent gravel and 8 percent cobbles; strongly acid (pH 5.4); clear wavy boundary.

C2—36 to 60 inches; variable brownish yellow (10YR 6/6) and light brownish gray (10YR 6/2) cobbly clay loam, yellowish brown (10YR 5/6) and brown (10YR 5/3) moist; massive; very hard, firm, very sticky and plastic; 10 percent gravel and 15 percent cobbles; strongly acid (pH 5.1). Variable colors are due to parent material.

The mollic epipedon ranges from 16 to 30 inches thick. The particle-size control section has 35 to 45 percent clay and 5 to 35 percent sandstone rock fragments.

A horizon: The hue is 10YR or 2.5Y; the value is 4 or 5 dry, 2 or 3 moist; and the chroma is 1 through 3. The texture is silty clay loam or loam.

C horizon: The hue is 10YR or 2.5Y; the value is 4 through 6 dry, 4 or 5 moist; and

the chroma is 2 through 6. The texture of the fine-earth fraction is clay loam or clay, with rock fragment modifiers of cobbly or gravelly in the lower part of some pedons. The reaction is strongly acid through slightly acid.

Sanchez Series

The Sanchez series consists of shallow, well drained soils on mountain slopes, hills, and ridges. These soils formed in residuum overlying sandstone. The slopes range from 12 to 45 percent. The elevation ranges from 7,300 to 8,500 feet. The average annual precipitation ranges from 18 to 22 inches. The average annual air temperature ranges from 40 to 45 degrees F.

These soils are loamy-skeletal, mixed, superactive, frigid Lithic Haplustalfs.

A typical pedon of Sanchez very stony sandy clay loam is in an area of Archuleta-Sanchez complex, 12 to 65 percent slopes, about 450 feet north of Wallace Gulch Road, about 1,150 feet west and 850 feet south of the northeast corner of sec. 24, T. 35 N., R. 8 W., La Plata County Soil Survey Area, Colorado.

E—0 to 5 inches; pale brown (10YR 6/3) very stony sandy clay loam, brown (10YR 5/3) moist; weak medium granular structure; hard, friable, slightly sticky and nonplastic; 15 percent stones, 15 percent cobbles, and 10 percent gravel; neutral (pH 7.0); clear smooth boundary.

Bt—5 to 11 inches; light brownish gray (10YR 6/2) very stony clay loam, dark grayish brown (10YR 4/2) moist; moderate medium granular structure; hard, firm, sticky and plastic; many distinct clay films on faces of peds; 20 percent stones, 15 percent cobbles, and 10 percent gravel; neutral (pH 7.0); clear smooth boundary.

BC—11 to 15 inches; light brownish gray (10YR 6/2) stony sandy clay loam, grayish brown (10YR 5/2) moist; weak medium granular structure; hard, firm, sticky and slightly plastic; 10 percent stones, 10 percent cobbles, and 10 percent gravel; neutral (pH 7.0); abrupt smooth boundary.

R—15 inches; hard sandstone.

The depth to bedrock ranges from 11 to 20 inches. The particle-size control section has 35 to 55 percent rock fragments. The soil is slightly acid or neutral.

E horizon: The hue is 7.5YR or 10YR; the value is 6 or 7 dry, 5 or 6 moist; and the chroma is 2 or 3.

Bt horizon: The hue is 7.5YR or 10YR; the value is 5 or 6 dry, 4 or 5 moist; and the chroma is 2 through 4. The texture typically is clay loam or sandy clay loam with rock modifiers of very stony. The particle-size control section has 20 to 35 percent clay.

Schrader Series

The Schrader series consists of very deep, poorly drained soils on flood plains. These soils formed in alluvium derived from mixed sources. The slopes range from 0 to 5 percent. The elevation ranges from 7,100 to 8,500 feet. Average annual precipitation ranges from 15 to 20 inches, and average annual air temperature ranges from 41 to 45 degrees F.

These soils are coarse-loamy, mixed, superactive, frigid Cumulic Endoaquolls.

A typical pedon of Schrader loam is in an area of Dalmation-Apmay-Schrader complex, 0 to 5 percent slopes, located about 1,000 feet east and 1,350 feet south of the northwest corner of sec. 5, T. 38 N., R. 13 W.:

Ap—0 to 4 inches; dark grayish brown (10YR 4/2) loam, very dark grayish brown (10YR 3/2) moist; moderate fine subangular blocky structure parting to weak fine granular; hard, friable, nonsticky and slightly plastic; many very fine and common fine and medium roots; many very fine continuous pores; slight effervescence; slightly alkaline (pH 7.4); clear smooth boundary.

- A—4 to 13 inches; dark grayish brown (10YR 4/2) loam, very dark grayish brown (10YR 3/2) moist; weak fine subangular blocky structure; hard, friable, nonsticky and slightly plastic; common very fine and few medium roots; common very fine continuous pores; slight effervescence; neutral (pH 7.2); clear smooth boundary.
- AC1—13 to 17 inches; brown (10YR 4/3) fine sandy loam, very dark grayish brown (10YR 3/2) moist; massive; hard, very friable, nonsticky and nonplastic; few very fine roots; few very fine continuous pores; common medium distinct strong brown (7.5YR 5/6) masses of iron concentrations; neutral (pH 7.0); clear smooth boundary.
- AC2—17 to 24 inches; brown (10YR 4/3) sandy clay loam, very dark grayish brown (10YR 3/2) moist; weak, medium subangular blocky structure; slightly hard, very friable, nonsticky and nonplastic; few very fine roots; few very fine continuous pores; common medium distinct strong brown (7.5YR 4/6) masses of iron concentrations; neutral (pH 6.8); clear smooth boundary.
- C—24 to 60 inches; brown (10YR 5/3) fine sandy loam, dark brown (10YR 3/3) moist; massive; slightly hard, very friable, nonsticky and nonplastic; many medium prominent strong brown (7.5YR 4/6) masses of iron concentrations; neutral (pH 7.0).

The mollic epipedon is 25 to 60 inches thick or more. The particle-size control section has 10 to 18 percent clay and 0 to 10 percent rock fragments. A seasonal high water table usually is at a depth of 12 to 24 inches in May and June. Iron concentrations are present below the A horizon.

A horizon: The value is 4 or 5 dry, 2 or 3 moist; and the chroma is 1 through 3. The reaction is neutral or slightly alkaline.

AC horizon: The hue is 7.5YR or 10YR. The texture is fine sandy loam and sandy clay loam. The reaction is neutral or slightly alkaline.

C horizon: The hue is 7.5YR or 10YR. The reaction is neutral or slightly alkaline.

Scotch Series

The Scotch series consists of shallow, well drained soils on mountain slopes and ridges. These soils formed in slope alluvium and residuum derived mostly from red bed sandstone and shale. The slopes range from 30 to 60 percent. The elevation ranges from 9,000 to 11,500 feet. The average annual precipitation ranges from 35 to 45 inches. The average annual air temperature ranges from 30 to 38 degrees F.

These soils are loamy, mixed, superactive Lithic Haplocryalfs.

A typical pedon of Scotch loam is in an area of Scotch-Graysill complex, 30 to 60 percent slopes, located along Hotel Draw road approximately 1,000 feet north and 2,300 feet west of the southeast corner of sec. 10, T. 39 N., R. 10 W.:

- Oi—0 to 2 inches; organic mat of decomposing organic matter.
- E—2 to 7 inches; pale red (2.5YR 6/2) loam, reddish brown (2.5YR 5/4) moist; moderate, medium granular structure; soft, friable, nonsticky and nonplastic; 5 percent gravel; strongly acid (pH 5.2); clear smooth boundary.
- Bt—7 to 17 inches; reddish brown (2.5YR 5/4) clay loam, reddish brown (2.5YR 4/4) moist; moderate medium subangular blocky structure that parts to moderate medium granular; hard, friable, sticky and plastic; few distinct clay films on faces of peds; 2 percent gravel; strongly acid (pH 5.2); clear wavy boundary.
- R—17 inches; hard sandstone bedrock, weathered in the top few inches.

The depth to bedrock ranges from 10 to 20 inches from the mineral soil surface. The particle-size control section has 0 to 25 percent rock fragments. The reaction is very strongly acid or strongly acid.

E horizon: The hue is 2.5YR or 5YR; the value is 5 through 7 dry, 4 or 5 moist; and the chroma is 2 through 4.

Bt horizon: The hue is 2.5YR or 5YR; the value is 5 or 6 dry, 4 or 5 moist; and the chroma is 3 through 6. The texture of the fine-earth fraction typically is loam, clay loam, or sandy clay loam. The particle-size control section has 18 to 35 percent clay.

Scout Series

The Scout series consists of very deep, well drained soils on mountain slopes and mesas. These soils formed in colluvium and slope alluvium derived dominantly from rhyolite. The slopes range from 5 to 60 percent. The elevation ranges from 9,600 to 11,600 feet. The average annual precipitation ranges from 30 to 45 inches. The average annual air temperature ranges from 32 to 38 degrees F.

These soils are loamy-skeletal, mixed, superactive Typic Eutrocrypts.*

A typical pedon of Scout silt loam, 10 to 30 percent slopes, is located on Black Mesa, in the northwest quarter of the northeast quarter of sec. 21, T. 41 N., R. 12 W.:

Oi—0 to 1 inch; partially decomposed organic material.

A—1 inch to 2 inches; brown (7.5YR 4/4) silt loam, dark brown (7.5YR 4/3) moist; moderate very fine granular structure; soft, very friable, slightly sticky and slightly plastic; 3 percent gravel; many very fine and common fine roots throughout; moderately acid (pH 6.0); gradual smooth boundary.

E—2 to 9 inches; light brown (7.5YR 6/4) very cobbly silt loam, brown (7.5YR 4/4) moist; weak fine subangular blocky structure; slightly hard, friable, slightly sticky and slightly plastic; 25 percent gravel, 20 percent cobbles, and 5 percent stones; common very thin and few thin roots throughout; few fine and common very fine vertical discontinuous tubular pores; moderately acid (pH 6.0); clear smooth boundary.

Bw—9 to 17 inches; brown (7.5YR 5/2) very cobbly loam, brown (7.5YR 4/3) moist; weak medium subangular blocky structure; slightly hard, very friable, slightly sticky and slightly plastic; 25 percent gravel, 20 percent cobbles, and 5 percent stones; common very fine and few fine roots throughout; common very fine vesicular pores; moderately acid (pH 6.0); gradual wavy boundary.

C—17 to 61 inches; brownish yellow (10YR 6/6) very cobbly loam, brown (7.5YR 4/4) moist; massive; soft, very friable, slightly sticky and slightly plastic; 30 percent gravel, 20 percent cobbles, and 5 percent stones; few very fine and few fine roots throughout; common fine oblique discontinuous tubular pores and many very fine vesicular pores; moderately acid (pH 6.0).

The particle-size control section has 10 to 18 percent clay; it also contains 35 to 55 percent rock fragments, most of which are of rhyolite and are in the E and B horizons.

E horizon: The hue is 7.5YR or 10YR; the value is 5 through 7 dry, 3 to 6 moist; and the chroma is 2 through 4. The reaction is moderately acid or slightly acid.

Bw horizon: The hue is 7.5YR or 10YR; the value is 5 through 7 dry, 4 to 6 moist; and the chroma is 2 through 6. The reaction is moderately acid or slightly acid.

C horizon: The hue is 7.5YR or 10YR; the value is 4 through 6 dry, 4 through 6 moist; and the chroma is 3 through 6. The particle-size control section has 40 to 65 percent rock fragments. The reaction is moderately acid or slightly acid.

* This soil is taxadjunct to the series because the soil is not dry in some parts of the moisture control section for 45 cumulative days in most years (a typic udic moisture regime subclass).

Seitz Series

The Seitz series consists of very deep, well drained soils on mountain slopes. These soils formed in slope alluvium derived dominantly from volcanic rocks. The slopes range from 10 to 60 percent. The elevation ranges from 10,000 to 11,000 feet. Average annual precipitation ranges from 25 to 30 inches. The average annual air temperature ranges from 35 to 40 degrees F.

These soils are Clayey-skeletal, smectitic Typic Haplocryalfs.

A typical pedon of Seitz gravelly loam, 10 to 60 percent slopes, is located in the northwest quarter of the northwest quarter of sec. 6, T. 41 N, R. 12 W.:

- Oe—0 to 2 inches; organic mat of decayed spruce-fir needles and other debris.
- A—2 to 4 inches; brown (7.5YR 5/2) gravelly loam, dark brown (7.5YR 3/2) moist; moderate fine granular structure; soft, friable, slightly sticky and slightly plastic; 15 percent gravel, 10 percent cobbles, and 5 percent stones; many fine roots and pores; neutral (pH 7.0); clear smooth boundary.
- E—4 to 11 inches; pale brown (10YR 6/3) very stony loam, brown (10YR 4/3) moist; moderate fine granular structure; soft, friable, slightly sticky and slightly plastic; 10 percent gravel, 15 percent cobbles, and 20 percent stones; many fine roots and pores; neutral (pH 6.8); clear wavy boundary;
- B/E—11 to 18 inches; (60 percent B) brown (7.5YR 5/4) very stony clay loam, brown (7.5YR 4/4) moist, and (40 percent E) pale brown (10YR 6/3) very stony loam, brown (10YR 4/3) moist; moderate medium subangular blocky structure; hard, firm, sticky and plastic; 10 percent gravel, 15 percent cobbles, and 20 percent stones; few roots and pores; neutral (pH 6.8); gradual wavy boundary.
- Bt—18 to 42 inches; brown (10YR 5/3) extremely stony clay, brown (10YR 4/3) moist; moderate medium subangular blocky and moderate medium angular blocky structure; very hard, very firm, very sticky and very plastic; common distinct clay films on faces of peds; 15 percent gravel, 25 percent cobbles, and 25 percent stones; neutral (pH 6.8); gradual wavy boundary.
- C—42 to 62 inches; brown (10YR 5/3) extremely stony clay loam, brown (10YR 4/3) moist; massive; very hard, very firm, sticky and plastic; 20 percent gravel, 30 percent cobbles, and 30 percent stones; neutral (pH 6.8).

The particle-size control section has 35 to 50 percent clay and 35 to 80 percent rock fragments. The reaction is slightly acid or neutral throughout.

A horizon: The hue is 7.5YR or 10YR; the value is 4 or 5 dry, 2 or 3 moist; and the chroma is 1 or 2.

E horizon: The hue is 7.5YR or 10YR; the value is 6 or 7 dry, 4 or 5 moist and chroma of 2 or 3.

B/E horizon: The hue is 7.5YR or 10YR

B part: The value is 5 or 6 dry, 3 or 4 moist; and the chroma is 3 or 4. The texture of the fine-earth fraction is clay loam.

E part: The value is 6 or 7 dry, 4 or 5 moist; and the chroma is 2 or 3. The texture of the fine-earth fraction is loam. The particle-size control section has 30 to 80 percent rock fragments.

Bt horizon: The hue is 7.5YR or 10YR; the value is 5 or 6 dry, 3 or 4 moist and chroma of 3 or 4. The texture of the fine-earth fraction is clay loam or clay with rock fragment modifiers.

C horizon: The hue is 7.5YR or 10YR.

This soil is taxadjunct to the series because the B/E horizon does not have the pale colors required for a glossic horizon.

Sessions Series

The Sessions series consists of very deep, well drained soils on mountain slopes and structural benches. These soils formed in slope alluvium derived mostly from sandstone and limestone. The slopes range from 5 to 30 percent. The elevation ranges from 9,000 to 11,000 feet. The average annual precipitation ranges from 35 to 45 inches. The average annual air temperature ranges from 32 to 38 degrees F.

These soils are fine, smectitic Typic Argicryolls.

A typical pedon of Sessions loam in an area of Heisspitz-Sessions-Rock outcrop complex, 5 to 15 percent slopes, is located about 1,100 feet south and 600 feet east of the northwest corner of sec. 14, T. 37 N., R. 6 W.:

- A1—0 to 3 inches; dark grayish brown (10YR 4/2) loam, very dark grayish brown (10YR 3/2) moist; weak moderate medium and fine granular structure; soft, very friable, nonsticky and nonplastic; 2 percent gravel; neutral (pH 6.8); abrupt smooth boundary.
- A2—3 to 11 inches; grayish brown (10YR 5/2) loam, very dark grayish brown (10YR 3/2) moist; weak fine subangular blocky structure that parts to moderate fine and medium granular; soft, very friable, slightly sticky and slightly plastic; 2 percent gravel; neutral (pH 6.8); clear wavy boundary.
- Bt1—11 to 19 inches; brown (7.5YR 5/3) clay loam, brown (7.5YR 4/3) moist; moderate medium subangular blocky structure; hard, firm, sticky and plastic; common distinct clay films on faces of peds; 2 percent gravel; neutral (pH 6.8); gradual wavy boundary.
- Bt2—19 to 34 inches; brown (7.5YR 5/3) clay, brown (7.5YR 4/3) moist; strong medium subangular blocky structure; very hard, very firm, sticky and very plastic; many prominent clay films on faces of peds; 2 percent gravel; neutral (pH 6.8); gradual wavy boundary.
- Bt3—34 to 48 inches; light reddish brown (5YR 6/3) clay, reddish brown (5YR 4/3) moist; strong medium subangular blocky structure; very hard, very firm, sticky and very plastic; many prominent clay films on faces of peds; 5 percent gravel and 2 percent cobbles; neutral; (pH 7.0); gradual wavy boundary.
- BC—48 to 60 inches; light reddish brown (5YR 6/4) gravelly clay loam, reddish brown (5YR 4/4) moist; weak medium subangular blocky structure; hard, firm, sticky and plastic; 20 percent gravel and 10 percent cobbles; neutral (pH 7.2).

The mollic epipedon is 11 to 16 inches thick. The particle-size control section has 0 to 15 percent rock fragments, which consist mostly of gravel and cobbles of sandstone, limestone, and granitic origin. The reaction is slightly acid or neutral.

A horizon: The value is 3 through 5 dry, 2 or 3 moist; and the chroma is 1 through 3.

Bt horizon: The hue is 5YR or 7.5YR; the value is 3 through 6 dry, 3 through 5 moist; and the chroma is 2 through 6. The texture is clay or clay loam. The particle-size control section has 35 to 45 percent clay.

BC horizon: The hue is 5YR or 7.5YR. The particle-size control section has 10 to 35 percent rock fragments.

This soil is taxadjunct to the series because it does not have a xeric soil moisture regime.

Shawa Series

The Shawa series consists of very deep, well drained soils on alluvial fans, terraces, and hills. These soils formed in alluvium, slope alluvium, and colluvium derived dominantly from sandstone and shale. The slopes range from 0 to 60 percent.

The elevation ranges from 7,000 to 8,500 feet. Average annual precipitation ranges from 15 to 22 inches, and average annual air temperature ranges from 40 to 46 degrees F.

These soils are fine-loamy, mixed, superactive, frigid Pachic Haplustolls.

A typical pedon of Shawa loam, 20 to 30 percent slopes, is located about 2,200 feet east and 3,100 feet north of the southwest corner of sec. 12, T. 41 N., R. 16 W.:

- A—0 to 7 inches; brown (10YR 5/3) loam, very dark grayish brown (10YR 3/2) moist; moderate fine granular structure; hard, friable, sticky and slightly plastic; 5 percent gravel; neutral (pH 7.2); clear smooth boundary.
- AB—7 to 19 inches; brown (10YR 5/3) loam, dark brown (10YR 3/3) moist; weak medium subangular blocky structure; hard, firm, sticky and slightly plastic; 5 percent gravel; neutral (pH 7.2); clear smooth boundary.
- Bw1—19 to 38 inches; brown (10YR 5/3) clay loam, brown (10YR 4/3) moist; weak medium subangular blocky structure; slightly hard, firm, sticky and slightly plastic; 5 percent gravel; neutral (pH 7.0); clear smooth boundary.
- Bw2—38 to 60 inches; brown (10YR 5/3) cobbly clay loam, brown (10YR 4/3) moist; weak medium subangular blocky structure; slightly hard, friable, sticky and slightly plastic; 10 percent gravel and 10 percent cobbles; neutral (pH 7.0).

The mollic epipedon is 16 to 30 inches thick. The particle-size control section has 18 to 35 percent clay and 0 to 30 percent sandstone rock fragments.

A horizon: The hue is 7.5YR or 10YR; the value is 4 or 5 dry, 2 or 3 moist; and the chroma is 1 through 3.

Bw horizon: The hue is 7.5YR or 10YR; the value is 5 or 6 dry, 4 or 5 moist; and the chroma is 2 or 3. The texture of the fine-earth fraction is loam or clay loam and has cobbly rock fragment modifiers in the lower parts of some pedons.

Sheek Series

The Sheek series consists of very deep, well drained soils on mesas, hills, mountain slopes and canyon side slopes. These soils formed in colluvium and slope alluvium derived from sandstone and shale. The slopes range from 6 to 80 percent. The elevation ranges from 7,100 to 8,500 feet. The average annual precipitation ranges from 15 to 22 inches. The average annual air temperature ranges from 40 to 45 degrees F.

These soils are loamy-skeletal, mixed, superactive, frigid Typic Haplustalfs.

A typical pedon of Sheek very stony sandy loam is in an area of Archuleta-Sheek complex, 12 to 65 percent slopes, located about 1,100 feet north and 200 feet east of the southwest corner of sec. 21, T. 36 N., R. 12 W.:

- Oi—0 to 1 inch; organic layer of leaves and roots.
- A—1 inch to 6 inches; grayish brown (10YR 5/2) very stony sandy loam, very dark grayish brown (10YR 3/2) moist; moderate medium granular structure; soft, very friable, nonsticky and nonplastic; 5 percent gravel, 10 percent cobbles, 20 percent stones, and 2 percent boulders; neutral (pH 6.8), clear wavy boundary.
- E—6 to 8 inches; light brownish gray (10YR 6/2) very stony sandy loam, dark grayish brown (10YR 4/2) moist; weak fine granular structure; soft, very friable, nonsticky and nonplastic; 5 percent gravel, 10 percent cobbles, 20 percent stones, and 2 percent boulders; neutral (pH 6.8), clear wavy boundary.
- Bt1—8 to 24 inches; brown (7.5YR 5/4) very stony sandy clay loam, brown (7.5YR 4/4) moist; weak medium subangular blocky structure; hard, firm, sticky and plastic; few distinct clay films on faces of peds; 10 percent gravel, 5 percent cobbles, 30 percent stones, and 2 percent boulders; neutral (pH 6.6); gradual wavy boundary.
- Bt2—24 to 43 inches; brown (7.5YR 5/4) very stony clay loam, brown (7.5YR 4/4) moist; moderate medium subangular blocky structure; hard, firm, sticky and

plastic; many prominent clay films on faces of peds; 10 percent gravel, 5 percent cobbles, 30 percent stones, and 2 percent boulders; neutral (pH 6.6); gradual wavy boundary.

C—43 to 61 inches; light brown (7.5YR 6/4) very stony sandy clay loam, brown (7.5YR 5/4) moist; massive; slightly hard, very friable, slightly sticky and slightly plastic; 15 percent gravel, 10 percent cobbles, 30 percent stones, and 2 percent boulders; slightly acid (pH 6.4).

The soils typically are noncalcareous although some pedons have carbonates in the lower part. The particle-size control section has 18 to 35 percent clay and 35 to 70 percent rock fragments.

A horizon: The hue is 7.5YR or 10YR; the value is 4 or 5 dry, 2 or 3 moist; and the chroma is 2 through 4. The texture of the fine-earth fraction is loam, sandy loam, or clay loam. The reaction is slightly acid to slightly alkaline. Some pedons do not have an A horizon.

E horizon: The hue is 7.5YR or 10YR; the value is 5 through 7 dry, 3 through 6 moist, chroma 2 through 4. The reaction is slightly acid to slightly alkaline.

Bt horizon: The hue is 7.5YR or 10YR; the value is 5 through 7 dry, and 4 through 6 moist; and the chroma is 4 through 6. The texture of the fine-earth fraction typically is loam, clay loam, or sandy clay loam with very stony, very cobbly, or very gravelly rock modifiers. The reaction is slightly acid to slightly alkaline.

Bk horizon (when present): The hue is 7.5YR or 10YR; the value is 7 or 8 dry, 5 to 7 moist; and the chroma is 1 to 6. The texture of the fine-earth fraction is loam or clay loam with rock modifiers. The reaction is slightly alkaline or moderately alkaline.

C horizon (when present): The hue is 7.5YR or 10YR.

Sig Series

The Sig series consists of shallow or very shallow, well drained soils on mountain slopes and structural benches. These soils formed in slope alluvium and colluvium weathered mainly from granite. The slopes range from 15 to 45 percent. The elevation ranges from 8,500 to 11,500 feet. The average annual precipitation ranges from 30 to 45 inches. The average annual air temperature ranges from 32 to 38 degrees F.

These soils are loamy-skeletal, mixed, superactive, Lithic Dystrocrypts.

A typical pedon of Sig gravelly loam is in an area of Snowdon-Sig-Rock outcrop complex, 15 to 45 percent slopes, located about 1,100 feet west and 2,700 feet north of the southeast corner of sec. 6, T. 39 N., R. 8 W.:

Oi—0 to 2 inches; organic layer of needles, leaves, and twigs.

A—2 to 9 inches; light reddish brown (5YR 6/3) gravelly loam, reddish brown (5YR 4/3) moist; moderate fine granular structure; soft, very friable, nonsticky and nonplastic; 25 percent gravel, 5 percent cobbles, and 1 percent stones; moderately acid (pH 5.6); gradual wavy boundary.

Bw—9 to 16 inches; reddish brown (5YR 5/4) very gravelly loam, reddish brown (5YR 4/4) moist; weak medium subangular blocky structure parting to weak fine granular; soft, very friable, nonsticky and nonplastic; 30 percent gravel, 15 percent cobbles, and 2 percent stones; moderately acid (pH 5.6); abrupt wavy boundary.

R—16 inches; hard granite bedrock, fractured in the upper few inches.

The depth to bedrock is 8 to 20 inches from the mineral soil surface. The particle-size control section has 18 to 27 percent clay and 35 to 65 percent granite rock fragments.

A horizon: The hue is 5YR or 7.5YR; the value is 5 to 7 dry, 4 to 6 moist; and the chroma is 2 through 4. The reaction is strongly acid or moderately acid.

Bw horizon: The hue is 5YR to 7.5YR; the value is 5 or 6 dry, 4 or 5 moist; and the chroma is 3 to 6. The texture of the fine-earth fraction is loam, sandy loam, or sandy clay loam. The reaction is strongly acid or moderately acid.

Silex Series

The Silex series consists of shallow or very shallow, well drained soils on mountain slopes, mesas, and structural benches. These soils formed in slope alluvium derived mostly from limestone and sandstone. The slopes range from 10 to 20 percent. The elevation ranges from 10,000 to 11,000 feet. The average annual precipitation ranges from 30 to 45 inches. The average annual air temperature ranges from 32 to 36 degrees F.

These soils are loamy, mixed, superactive Lithic Haplocryalfs.

A typical pedon of Silex loam is in an area of Silex-Rock outcrop complex, 10 to 20 percent slopes, located in an unsectionized area about 1,400 feet south and 400 feet east of the projected northwest corner (in the southwest quarter of the northwest quarter) of sec. 23, T. 40 N, R. 8 W.:

Oi—0 to 1 inch; organic layer of roots, leaves and needles.

E—1 inch to 4 inches; pinkish gray (7.5YR 6/2) loam, brown (7.5YR 4/2) moist; moderate medium granular structure; soft, friable, slightly sticky and slightly plastic; 5 percent gravel; strongly acid (pH 5.2); clear smooth boundary.

Bt1—4 to 10 inches; brown (7.5YR 5/4) clay loam, brown (7.5YR 4/4) moist; weak medium subangular blocky structure parting to moderate medium granular; slightly hard, friable, sticky and plastic; few distinct clay films on faces of peds; 5 percent gravel and 3 percent cobbles; very strongly acid (pH 4.8); clear wavy boundary.

Bt2—10 to 18 inches; light brown (7.5YR 6/4) sandy clay loam, brown (7.5YR 4/4) moist; weak medium subangular blocky structure parting to moderate medium granular; slightly hard, friable, slightly sticky and slightly plastic; few distinct clay films on faces of peds; 10 percent gravel and 3 percent cobbles; very strongly acid (pH 4.8); abrupt wavy boundary.

R—18 inches; hard limestone bedrock, with cracks in the upper part.

The depth to bedrock ranges from 7 to 20 inches from the mineral soil surface. The reaction is very strongly acid or strongly acid. In some pedons, thin A horizons are present.

E horizon: The hue is 7.5YR or 10YR; the value is 5 through 7 dry, 4 or 5 moist; and the chroma is 2 or 3. The particle-size control section has 0 to 15 percent rock fragments.

Bt horizon: The hue is 7.5YR or 10YR; the value is 5 or 6 dry, 4 or 5 moist; and the chroma is 3 through 6. The texture of the fine-earth fraction typically is clay loam, loam, or sandy clay loam. The particle-size control section has 20 to 35 percent clay and 0 to 25 percent rock fragments.

Sili Series

The Sili series consists of very deep, well drained soils on hills, alluvial fans and toeslopes below shale hills. These soils formed in alluvium and slope alluvium weathered from shale and sandstone. The slopes range from 5 to 15 percent. The elevation ranges from 6,500 to 7,500 feet. The average annual precipitation ranges from 13 to 16 inches. The average annual air temperature ranges from 47 to 52 degrees F.

These soils are fine, smectitic, mesic Aridic Haplustepts.

A typical pedon of Sili clay loam, 5 to 15 percent slopes, is located near Disappointment Reservoir No.1, about 1,300 feet north and 600 feet east of the southwest corner of sec. 7, T. 41 N., R. 15 W.:

- A—0 to 3 inches; grayish brown (10YR 5/2) clay loam, brown (10YR 4/3) moist; moderate fine granular structure; hard, firm, slightly sticky and slightly plastic; common fine roots; strongly effervescent; slightly alkaline (pH 7.8); clear smooth boundary.
- Bw1—3 to 15 inches; grayish brown (10YR 5/2) clay loam, brown (10YR 4/3) moist; moderate medium subangular blocky structure; hard, firm, slightly sticky and slightly plastic; common fine roots; strongly effervescent; moderately alkaline (pH 8.0); clear smooth boundary.
- Bk1—15 to 25 inches; light brownish gray (10YR 6/2) clay loam, brown (10YR 4/3) moist; moderate medium prismatic structure that parts to strong medium subangular blocky; hard, firm, sticky and plastic; few fine roots; few fine threads of calcium carbonate; violently effervescent; strongly alkaline (pH 8.6); gradual smooth boundary.
- Bk2—25 to 50 inches; light brownish gray (10YR 6/2) clay loam, brown (10YR 4/3) moist; weak coarse subangular blocky structure parting to moderate medium subangular blocky; hard, firm, sticky and plastic; 5 percent gravel and 2 percent cobbles; common fine threads of calcium carbonate; violently effervescent; strongly alkaline (pH 8.6); gradual smooth boundary.
- Bk3—50 to 60 inches; light brownish gray (10YR 6/2) clay loam, brown (10YR 4/3) moist; moderate medium subangular blocky structure; hard, firm, sticky, plastic; 12 percent gravel and 2 percent cobbles; common fine threads of calcium carbonate; violently effervescent; strongly alkaline (pH 8.6).

The depth to calcareous material ranges from 0 to 15 inches.

A horizon: The hue is 10YR or 2.5Y; the value is 5 or 6 dry, 3 or 4 moist; and the chroma is 2 or 3. The reaction is neutral or slightly alkaline.

Bw horizon: The hue is 10YR or 2.5Y; the value is 5 or 6 dry, 4 or 5 moist; and the chroma is 2 through 4. The texture typically is clay loam, silty clay loam, or clay. The particle-size control section has 35 to 45 percent clay. The reaction is slightly alkaline or moderately alkaline.

Bk horizon: The hue is 10YR or 2.5Y; the value is 5 or 6 dry, 4 or 5 moist; and the chroma is 2 through 4. The texture is clay loam, silty clay loam, or clay. The calcium carbonate equivalent ranges from 2 to 10 percent. The reaction is moderately alkaline or strongly alkaline.

Skisams Series

The Skisams series consists of shallow and very shallow, well drained soils on structural benches and mesas. These soils formed in slope alluvium derived mostly from shale and sandstone. The slopes range from 1 to 15 percent. The elevation ranges from 8,500 to 9,600 feet. The average annual precipitation ranges from 25 to 30 inches. The average annual air temperature ranges from 36 to 42 degrees F.

These soils are loamy, mixed, superactive Lithic Haplocryolls.

A typical pedon of Skisams loam is in an area of Mancos-Skisams-Skutum complex 1 to 15 percent slopes, located in the northeast quarter of the northeast quarter of sec. 21, T. 37 N., R. 12 W.:

- A1—0 to 5 inches; brown (7.5YR 4/2) loam, dark brown (7.5YR 3/2) moist; weak medium platy structure that parts to moderate medium granular; soft, very friable, nonsticky and nonplastic; many fine roots; many fine pores; slightly acid (pH 6.2); clear smooth boundary.

A2—5 to 12 inches; brown (7.5YR 4/2) loam, dark brown (7.5YR 3/2) moist; weak medium subangular blocky structure that parts to strong medium granular; slightly hard, friable, slightly sticky and slightly plastic; many fine roots; many fine pores; slightly acid (pH 6.4); abrupt smooth boundary.

R—12 inches; hard fractured sandstone bedrock, weathered in the upper inch.

Bedrock is at a depth of 6 to 20 inches. The mollic epipedon is 6 to 15 inches thick. The particle-size control section has 18 to 27 percent clay, 0 to 10 percent rock fragments in the A1 horizon, and 0 to 20 percent in the A2 horizon. In some pedons a Bw horizon is present.

A horizon: The hue is 7.5YR or 10YR; the value is 3 through 5 dry, 2 through 3 moist; and the chroma is 2 or 3. The texture typically is loam, but the lower parts of some pedons have gravelly loam. The reaction is slightly acid or neutral.

Skutum Series

The Skutum series consists of deep, well drained soils on structural benches and mesas. These soils formed in slope alluvium derived mostly from shale and sandstone. The slopes range from 1 to 15 percent. The elevation ranges from 8,500 to 9,600 feet. The average annual precipitation ranges from 25 to 30 inches. The average annual air temperature ranges from 36 to 42 degrees F.

These soils are fine, smectitic, Pachic Argicryolls.

A typical pedon of Skutum loam is in an area of Mancos-Skisams-Skutum complex, 1 to 15 percent slopes, located in the northwest quarter of the northwest quarter of sec. 22, T. 12 W., R. 37 N.:

Oi—0 to 3 inches; mat of organic material consisting of leaves, roots and twigs.

A1—3 to 8 inches; grayish brown (10YR 5/2) loam, very dark grayish brown (10YR 3/2) moist; moderate medium granular structure; slightly hard, friable, nonsticky and nonplastic; many fine and medium roots; many fine pores; neutral (pH 6.6); clear smooth boundary.

A2—8 to 20 inches; grayish brown (10YR 5/2) clay loam, very dark grayish brown (10YR 3/2) moist; moderate medium granular structure; soft, friable, slightly sticky and slightly plastic; 2 percent gravel; many fine and medium roots; many fine pores; neutral (pH 6.8); gradual smooth boundary.

Bt1—20 to 30 inches; grayish brown (10YR 5/2) gravelly clay loam, brown (10YR 4/3) moist; weak medium subangular blocky structure parting to moderate medium granular; slightly hard, firm, sticky and plastic; few faint clay films on faces of peds; 15 percent gravel; few fine roots; few fine pores; slightly acid (pH 6.2); gradual smooth boundary.

Bt2—30 to 47 inches; brown (10YR 5/3) gravelly clay loam, brown (10YR 4/3) moist; weak medium subangular blocky structure parting to moderate medium granular; hard, firm, sticky and plastic; many prominent clay films on faces of peds; 15 percent gravel, few fine roots; few fine pores; slightly acid (pH 6.2); gradual smooth boundary.

2C—47 to 53 inches; light yellowish brown (10YR 6/4) gravelly sandy clay loam, yellowish brown (10YR 5/4) moist; massive; slightly hard, very friable, slightly sticky and slightly plastic; 15 percent gravel; few fine roots; few fine pores; slightly acid (pH 6.4); gradual wavy boundary.

2Cr—53 to 63 inches; shale bedrock

The mollic epipedon ranges from 16 to 30 inches thick and may include part of the Bt horizon. The particle-size control section has 35 to 45 percent clay and 15 to 30 percent rock fragments. The depth to shale ranges from 50 to 60 inches from the mineral soil surface.

A horizon: The hue is 7.5YR or 10YR; the value is 4 or 5 dry, 2 or 3 moist; and the chroma is 2 or 3. The reaction is moderately acid through neutral.

Bt horizon: The hue is 7.5YR or 10YR; the value is 4 through 6 dry, 3 through 5 moist; and the chroma is 2 through 6. The texture of the fine-earth fraction is clay or clay loam. The reaction is moderately acid or slightly acid.

2C horizon: The hue is 7.5YR or 10YR. The reaction is moderately acid through neutral.

Snowdon Series

The Snowdon series consists of shallow, well drained soils on mountain slopes, structural benches, mesas, and ridges. These soils formed in residuum, colluvium and slope alluvium derived mostly from rhyolite, sandstone, limestone, and granite. The slopes range from 5 to 90 percent. The elevation ranges from 8,300 to 11,500 feet. The average annual precipitation ranges from 25 to 45 inches. The average annual air temperature ranges from 30 to 38 degrees F.

These soils are loamy-skeletal, mixed, superactive Lithic Haplocryalfs.

A typical pedon of Snowdon very stony loam is in an area of Snowdon-Rock outcrop complex, 30 to 65 percent slopes, located in an unsectionized area, along an old mine road off main Kendall Gulch road about 2 miles south of Silverton, about 2,200 feet east and 1,050 feet south of the projected northwest corner of sec. 29, T. 41 N., R. 7 W.:

Oi—0 to 2 inches; organic layer of needles, twigs and leaves.

A—2 to 6 inches; light reddish brown (5YR 6/3) very stony loam, reddish brown (5YR 4/3) moist; moderate medium granular structure; soft, friable, slightly sticky and nonplastic; 15 percent gravel, 20 percent cobbles, and 20 percent stones; very strongly acid (pH 4.8); clear smooth boundary.

E—6 to 13 inches; pinkish gray (7.5YR 6/2) very stony sandy loam, brown (7.5YR 5/3) moist; weak fine granular structure; soft, very friable, nonsticky and nonplastic; 15 percent gravel, 20 percent cobbles, and 20 percent stones; very strongly acid (pH 4.6); clear wavy boundary.

Bt—13 to 20 inches; reddish brown (5YR 5/4) extremely stony sandy clay loam, reddish brown (5YR 4/4) moist; weak medium subangular blocky structure parting to moderate medium granular; soft, very friable, slightly sticky and slightly plastic; common distinct clay films on faces of peds; 10 percent gravel, 25 percent cobbles, and 25 percent stones; very strongly acid (pH 5.0); abrupt wavy boundary.

R—20 inches; hard rhyolite bedrock.

Bedrock is at a depth of 10 to 20 inches from the mineral soil surface. The particle-size control section has 18 to 35 percent clay and 35 to 75 percent rock fragments. The rock fragments are gravel, cobbles, and stones derived from rhyolite, sandstone, and limestone.

A horizon: The hue is 5YR through 10YR; the value is 5 or 6 dry, 4 or 5 moist; and the chroma is 1 through 3. The reaction is very strongly acid through neutral.

E horizon: The hue is 5YR through 10YR; the value is 6 or 7 dry, 4 or 5 moist; and the chroma is 2 through 4. The texture of the fine-earth fraction is sandy loam or loam with rock modifiers. The reaction is very strongly acid through neutral.

Bt horizon: The hue is 5YR or 7.5YR; the value is 5 or 6 dry, 4 or 5 moist; and the chroma is 3 through 6. The texture of the fine-earth fraction typically is sandy clay loam, loam, or clay loam with rock fragment modifiers of very cobbly to extremely stony. The reaction is very strongly acid through neutral.

Sponsor Series

The Sponsor series consists of very deep, well drained soils on mountain slopes. These soils formed in slope alluvium, colluvium, and outwash derived mostly from granite and sandstone. The slopes range from 15 to 45 percent. The elevation ranges from 8,800 to 10,000 feet. The average annual precipitation ranges from 25 to 35 inches. The average annual air temperature ranges from 36 to 42 degrees F.

These soils are fine-loamy, mixed, superactive Typic Argicryolls.

A typical pedon of Sponsor loam is in an area of Sponsor-Tuckerville complex, 15 to 30 percent slopes, located about 2,500 feet south and 1,500 feet east of the northwest corner of sec. 22, T. 37 N., R. 6 W.:

Oi—0 to 1 inch; organic layer of leaves.

A1—1 inch to 7 inches; dark reddish gray (5YR 4/2) loam, dark reddish brown (5YR 3/2) moist; weak fine granular structure; soft, very friable, nonsticky and nonplastic; many fine roots; few fine pores; moderately acid (pH 6.0); clear smooth boundary.

A2—7 to 12 inches; dark reddish gray (5YR 4/2) loam, dark reddish brown (5YR 3/2) moist; weak medium subangular blocky structure that parts to weak, medium granular structure; slightly hard, very friable, slightly sticky and slightly plastic; few medium and common fine roots; few fine pores; slightly acid (pH 6.2); clear smooth boundary.

Bt1—12 to 25 inches; reddish brown (5YR 5/3) cobbly clay loam, dark reddish gray (5YR 4/2) moist; moderate medium subangular blocky structure; hard, friable, sticky and plastic; few distinct clay films on faces of peds; 5 percent gravel and 10 percent cobbles; few fine roots; few fine pores; slightly acid (pH 6.2); gradual smooth boundary.

Bt2—25 to 43 inches; reddish brown (5YR 5/3) cobbly clay loam, dark reddish gray (5YR 4/2) moist; moderate medium subangular blocky structure; hard, friable, sticky and plastic; few distinct films on faces of peds; 5 percent gravel, 20 percent cobbles, and 5 percent stones; slightly acid (pH 6.4); gradual smooth boundary.

Bt3—43 to 61 inches; reddish brown (5YR 5/3) very stony clay loam, dark reddish gray (5YR 4/2) moist; weak medium subangular blocky structure; slightly hard, friable, slightly sticky and slightly plastic; very few faint clay films on faces of peds; 5 percent gravel, 20 percent cobbles, and 25 percent stones; neutral (pH 6.6).

The mollic epipedon is 10 to 16 inches thick. The particle-size control section has 27 to 35 percent clay and less than 35 percent rock fragments.

A horizon: The hue is 5YR or 7.5YR; the value is 4 or 5 dry, 2 or 3 moist; and the chroma is 1 through 3. The reaction is moderately acid or slightly acid.

Bt horizon: The hue is 2.5YR or 5YR; the value is 5 or 6 dry, 4 or 5 moist; and the chroma is 2 through 4. The upper part of the Bt horizon typically is a clay loam, gravelly clay loam, or cobbly clay loam. The lower part of the Bt horizon typically is a cobbly clay loam, stony clay loam, or very stony clay loam. The reaction is slightly acid or neutral.

Storm Series

The Storm series consists of very deep, well drained soils on mesas, mountain slopes, and hills. These soils formed in residuum derived from sandstone. The slopes range from 3 to 30 percent. The elevation ranges from 10,000 to 11,500 feet. Average annual precipitation ranges from 30 to 45 inches, and average annual air temperature ranges from 32 to 38 degrees F.

These soils are loamy-skeletal, mixed, superactive Typic Eutrocrypts.

A typical pedon of Storm extremely flaggy loam, 0 to 15 percent slopes, is located about 2,200 feet west and 600 feet north of the southeast corner of sec. 8, T. 39 N., R. 12 W.:

- Oi—0 to 2 inches; partially decomposed organic and fibric material.
- A—2 to 6 inches; dark brown (10YR 3/3) extremely flaggy loam, very dark brown (10YR 2/2) moist; weak fine subangular blocky structure parting to weak fine granular; slightly hard, very friable, sticky and plastic; many very fine to coarse roots throughout; many very fine interstitial pores; 20 percent gravel, 30 percent cobbles, and 40 percent flagstones; moderately acid (pH 5.9); clear smooth boundary.
- E—6 to 13 inches; pale brown (10YR 6/3) extremely flaggy loam, brown (10YR 4/3) moist; moderate medium subangular blocky structure parting to weak fine subangular blocky; slightly hard, very friable, sticky and plastic; many very fine and fine, and few medium and coarse roots; many very fine discontinuous tubular pores; 20 percent gravel, 25 percent cobbles, and 50 percent flagstones; moderately acid (pH 5.7); gradual wavy boundary.
- Bw1—13 to 19 inches; pale brown (10YR 6/3) extremely flaggy clay loam, dark yellowish brown (10YR 4/4) moist; weak fine subangular blocky structure; hard, friable, sticky and plastic; many very fine and fine, and few medium and coarse roots; many very fine discontinuous tubular pores; 25 percent gravel, 15 percent cobbles, and 35 percent flagstones; moderately acid (pH 5.6); clear smooth boundary.
- Bw2—19 to 31 inches; light yellowish brown (10YR 6/4) very gravelly clay loam, dark yellowish brown (10YR 4/4) moist; weak fine subangular blocky structure; hard, friable, slightly sticky and plastic; few fine and common medium roots; common very fine discontinuous tubular pores; 35 percent gravel, 10 percent cobbles, and 5 percent flagstones; moderately acid (pH 5.6); clear smooth boundary.
- Bw3—31 to 40 inches; very pale brown (10YR 7/4) extremely cobbly clay loam, yellowish brown (10YR 5/6) moist; weak fine subangular blocky structure; very hard, friable, slightly sticky and plastic; few fine and common medium roots; common very fine discontinuous tubular pores; 35 percent gravel, 20 percent cobbles, and 15 percent flagstones; moderately acid (pH 5.6); clear wavy boundary.
- BC—40 to 48 inches; brownish yellow (10YR 6/6) very gravelly loam, yellowish brown (10YR 5/6) moist; massive; very hard, firm, sticky and plastic; few fine roots; few very fine discontinuous tubular pores; 30 percent gravel, 15 percent cobbles, and 5 percent flagstones; moderately acid (pH 5.6); clear wavy boundary.
- C1—48 to 56 inches; very pale brown (10YR 7/4) extremely gravelly loam, brownish yellow (10YR 6/6) moist; few fine distinct light gray (10YR 7/1) lithochromic mottles due to parent material; massive; very hard, extremely firm, sticky and plastic; 50 percent gravel, 20 percent cobbles, and 5 percent flagstones; moderately acid (pH 5.6); gradual wavy boundary.
- C2—56 to 62 inches; light yellowish brown (10YR 6/4) extremely gravelly clay loam, brown (10YR 4/3) moist; few fine distinct white (10YR 8/1) lithochromic mottles; massive; hard, friable, sticky and plastic; 50 percent gravel, 10 percent cobbles, and 5 percent flagstones; moderately acid (pH 5.6).

The particle-size control section has 20 to 35 percent clay and 35 to 80 percent sandstone rock fragments. The reaction is strongly acid through slightly acid.

A horizon: The hue is 7.5YR or 10YR; the value is 3 through 5 dry, 2 or 3 moist; and the chroma is 2 through 4.

E horizon: The hue is 7.5YR or 10YR; the value is 5 through 7 dry, 2 through 4 moist; and the chroma is 2 through 6.

Bw horizon: The hue is 7.5YR or 10YR; the value is 5 through 7 dry, 2 through 5 moist; and the chroma is 2 through 6. The particle-size control section has 20 to 35 percent clay. The texture of the fine-earth fraction is loam, clay loam, or sandy clay loam with rock fragment modifiers.

C horizon: The hue is 7.5YR or 10YR. Some pedons have mottling in the C horizon due to variable parent materials.

Sudduth Series

The Sudduth series consists of very deep, moderately well drained soils in drainageways and depressions on mesas. These soils formed in alluvium derived dominantly from sandstone and shale of the Dakota and Burro Canyon formations. The slopes range from 0 to 15 percent. The elevation ranges from 8,500 to 10,000 feet. Average annual precipitation ranges from 25 to 30 inches, and average annual air temperature ranges from 34 to 40 degrees F.

These soils are fine, smectitic Vertic Argicryolls.

A typical pedon of Sudduth loam, 0 to 15 percent slopes, is located about 1,200 feet east and 500 feet north of the southwest corner of sec. 26, T. 39 N., R. 13 W.:

- A1—0 to 3 inches; very dark grayish brown (10YR 3/2) loam, very dark brown (10YR 2/2) moist; weak fine granular structure; hard, friable, nonsticky and nonplastic; many very fine, common fine, and few medium roots; few very fine pores; moderately acid (pH 5.7); clear smooth boundary.
- A2—3 to 7 inches; very dark grayish brown (10YR 3/2) loam, very dark brown (10YR 2/2) moist; moderate fine granular structure; hard, friable, nonsticky and nonplastic; common very fine, few fine, and few medium roots; few very fine pores; moderately acid (pH 5.9); clear smooth boundary.
- Bt—7 to 13 inches; dark grayish brown (10YR 4/2) clay loam, very dark grayish brown (10YR 3/2) moist; strong fine subangular blocky structure; very hard, firm, sticky and plastic; few very fine, fine, and medium roots; common very fine pores; few distinct clay films on the faces of peds; moderately acid (pH 5.9); gradual wavy boundary.
- 2Bt—13 to 22 inches; brown (10YR 4/3) clay, dark brown (10YR 3/3) moist; moderate medium subangular blocky structure; extremely hard, extremely firm, very sticky and very plastic; few fine roots; few very fine pores; few distinct clay films on the faces of peds; 5 percent gravel; common fine prominent strong brown (7.5YR 5/8) masses of iron concentrations; moderately acid (pH 5.7); gradual irregular boundary.
- 2C1—22 to 38 inches; light brownish gray (10YR 6/2) gravelly clay loam, brown (10YR 5/3) moist; strong medium and coarse angular blocky structure; very hard, firm, very sticky and plastic; 15 percent gravel and 5 percent cobbles; many medium prominent (7.5YR 5/8) masses of iron concentrations; moderately acid (pH 5.7); gradual wavy boundary.
- 2C2—38 to 52 inches; very dark gray (10YR 3/1) clay, black (10YR 2/1) moist; massive; extremely hard, extremely firm, very sticky and very plastic; moderately acid (pH 5.7); clear wavy boundary.
- 2C3—52 to 60 inches; black (10YR 2/1) clay, black (10YR 2/1) moist; massive; extremely hard, extremely firm, very sticky and very plastic; moderately acid (pH 5.7).

A high water table commonly is at a depth of 36 to 72 inches from April through June. The mollic epipedon is 16 to 40 inches thick. The depth to the base of the argillic horizon is 20 to 50 inches. The particle-size control section has 35 to 60 percent clay and 0 to 25 percent rock fragments. Estimated linear extensibility is 6.0 to 7.5.

A horizon: The hue is 7.5YR or 10YR; the value is 3 through 5 dry, 2 or 3 moist; and the chroma is 1 through 3.

Bt and 2Bt horizons: The hue is 7.5YR or 10YR; the value is 4 through 6 dry, 3 through 5 moist; and the chroma is 2 through 6. The texture is clay loam, clay, or gravelly clay. Iron concentrations are common in the lower part of the Bt horizon.

C horizon: The hue is 7.5YR or 10YR. The texture is gravelly clay loam or clay. Iron concentrations are common in some parts of the C horizon.

Tamarron Series

The Tamarron series consists of moderately deep, well drained soils on mountain slopes and ridges. These soils formed in slope alluvium and colluvium derived mostly from sandy shale and sandstone. The slopes range from 15 to 60 percent. The elevation ranges from 8,000 to 10,600 feet. The average annual precipitation ranges from 30 to 45 inches. The average annual air temperature ranges from 34 to 38 degrees F.

These soils are loamy-skeletal, mixed, superactive Eutric Haplocryalfs.

A typical pedon of Tamarron loam is in an area of Tamarron-Frisco complex, 30 to 60 percent slopes, located about 2,300 feet east and 3,000 feet north of the southwest corner of sec. 15, T. 37 N, R. 8 W.:

Oi—0 to 3 inches; organic mat of needles leaves and twigs.

E—3 to 9 inches; light brownish gray (10YR 6/2) loam, brown (10YR 5/3) moist; weak very fine granular structure; soft, very friable, nonsticky and nonplastic; 5 percent gravel; slightly acid (pH 6.2); clear smooth boundary.

Bt1—9 to 20 inches; light brown (7.5YR 6/4) very channery clay loam; brown (7.5YR 5/4) moist; moderate fine subangular blocky structure parting to moderate medium granular; slightly hard, friable, slightly sticky and slightly plastic; few distinct clay films on faces of peds; 20 percent channers and 10 percent flagstones; slightly acid (pH 6.4); clear smooth boundary.

Bt2—20 to 30 inches; pale brown (10YR 6/3) very flaggy loam; yellowish brown (10YR 5/4) moist; weak medium subangular blocky structure; slightly hard, friable, slightly sticky and slightly plastic; few distinct clay films on faces of peds; 25 percent channers, 25 percent flagstones, and 2 percent stones; slightly acid (pH 6.4); clear smooth boundary.

C—30 to 39 inches; pale brown (10YR 6/3) extremely flaggy loam; yellowish brown (10YR 5/4) moist; weak fine granular structure; soft, very friable, nonsticky and nonplastic; 40 percent channers, 40 percent flagstones, and 2 percent stones; slightly acid (pH 6.2); gradual wavy boundary.

Cr—39 to 49 inches; weathered platy sandy shale.

Bedrock is at a depth of 20 to 40 inches from the mineral soil surface. The particle-size control section has 18 to 35 percent clay and 35 to 65 percent sandstone and shale rock fragments. The reaction is moderately acid to neutral throughout.

E horizon: The hue is 7.5YR or 10YR; the value is 6 or 7 dry, 4 or 5 moist; and the chroma is 2 through 4.

Bt horizon: The hue is 7.5YR or 10YR; the value is 5 or 6 dry, 4 or 5 moist; and the chroma is 3 through 6. The texture of the fine-earth fraction is clay loam, loam, or sandy clay loam with rock fragment modifiers.

C horizon: The hue is 7.5YR or 10YR. The particle-size control section has 35 to 85 percent rock fragments.

Teedown Series

The Teedown series consists of very deep, well drained soils on mountain slopes and mesas. These soils formed in slope alluvium derived mostly from shale and quartz diorite. The slopes range from 0 to 30 percent. The elevation ranges from 8,500 to 11,000 feet. The average annual precipitation ranges from 25 to 40 inches. The average annual air temperature ranges from 35 to 40 degrees F.

These soils are Fine, smectitic Pachic Argicryolls.

A typical pedon of Teedown loam, 0 to 20 percent slopes, is located about 2,000 feet west and 1,200 feet south of the northeast corner of sec. 33, T. 12 W., R. 37 N.:

- A1—0 to 12 inches; dark gray (10YR 4/1) loam, very dark gray (10YR 3/1) moist; moderate medium granular structure; soft, friable, slightly sticky and slightly plastic; 5 percent cobbles and 2 percent stones; neutral (pH 6.6); gradual smooth boundary.
- A2—12 to 20 inches; dark gray (10YR 4/1) loam, very dark gray (10YR 3/1) moist; weak, medium subangular blocky structure parting to moderate medium granular; slightly hard, friable, slightly sticky and slightly plastic; 2 percent gravel, 8 percent cobbles, and 3 percent stones; neutral (pH 6.8); clear smooth boundary.
- Bt1—20 to 28 inches; grayish brown (10YR 5/2) clay, very dark grayish brown (10YR 3/2) moist; strong coarse prismatic structure parting to strong medium angular blocky; very hard very firm, very sticky and very plastic; many prominent clay films on faces of peds; 2 percent gravel, 8 percent cobbles, and 3 percent stones; slightly acid (pH 6.2); clear smooth boundary.
- Bt2—28 to 38 inches; light yellowish brown (10YR 6/4) clay, yellowish brown (10YR 5/4) moist; strong coarse prismatic structure parting to moderate medium angular and subangular blocky; very hard, very firm, very sticky and very plastic; many prominent clay films on faces of peds; 2 percent gravel, 2 percent cobbles, and 1 percent stones; slightly acid (pH 6.2); gradual smooth boundary.
- C—38 to 60 inches; grayish brown (10YR 5/2) stony clay, dark grayish brown (10YR 4/2) moist; massive; very hard, very firm, very sticky and very plastic; 5 percent gravel, 10 percent cobbles, and 15 percent stones; slightly acid (pH 6.4)

The mollic epipedon ranges from 20 to 30 inches thick and may include part of the Bt horizon. The depth to the base of the argillic horizon ranges from 30 to 60 inches. The particle-size control section has 35 to 50 percent clay and 5 to 20 percent diorite rock fragments.

A horizon: The hue is 7.5YR or 10YR; the value is 3 or 4 dry, 2 or 3 moist; and the chroma is 1 or 2. The reaction is slightly acid or neutral.

Bt horizon: The hue is 7.5YR or 10YR; the value is 5 or 6 dry, 3 through 5 moist; and the chroma is 2 through 6. The texture of the fine-earth fraction is clay or clay loam. The reaction is moderately acid or slightly acid.

C horizon: The hue is 7.5YR or 10YR; the value is 5 through 7, 4 through 6 moist; and the chroma is 2 through 6. The reaction is moderately acid through neutral.

Telluride Series

The Telluride series consists of shallow, well drained soils on alpine valley floors, mountain slopes and ridges. These soils formed in slope alluvium and colluvium derived mostly from rhyolite, tuff and similar volcanic rocks (*Fig. 20*). The slopes range from 15 to 75 percent. The elevation ranges from 11,500 to 13,500 feet. The average annual precipitation ranges from 35 to 45 inches. The average annual air temperature ranges from 28 to 34 degrees F.

These soils are loamy-skeletal, isotic Humic Lithic Dystrocryepts.



Figure 20.—Typical soil profile of Telluride very cobbly loam. These soils are shallow over volcanic bedrock.

A typical pedon of Telluride very cobbly loam is in an area of Telluride-Rock outcrop complex, 15 to 45 percent slopes, located near Mineral Point about 200 feet west and 600 feet north of the southeast corner of sec. 25, T. 43 N., R. 7 W.:

Oi—0 to 1 inch; partially decomposed organic mat.

A1—1 inch to 7 inches; brown (7.5YR 4/2) very cobbly loam, dark brown (7.5YR 3/2) moist; moderate medium granular structure; soft, friable, nonsticky and nonplastic; 10 percent gravel, 20 percent cobbles, and 10 percent stones; strongly acid (pH 5.1); clear smooth boundary.

A2—7 to 12 inches; brown, (7.5YR 4/2) stony loam, dark brown (7.5YR 3/2) moist; moderate medium subangular blocky structure that parts to weak fine granular; soft, friable, nonsticky and nonplastic; 5 percent gravel, 15 percent cobbles, and 10 percent stones; very strongly acid (pH 5.0); clear smooth boundary.

Bw—12 to 19 inches; pinkish gray (7.5YR 6/2) very stony loam, brown (7.5YR 5/4) moist; weak coarse subangular blocky structure that parts to weak medium granular; soft, friable, slightly sticky and slightly plastic; 10 percent gravel, 20 percent cobbles, and 20 percent stones; very strongly acid (pH 4.8) abrupt wavy boundary.

R—19 inches; fractured rhyolite bedrock.

Bedrock is at a depth of 10 to 20 inches from the mineral soil surface. The umbric epipedon is 7 to 15 inches thick. Base saturation ranges from 30 to 45 percent. The particle-size control section has 35 to 70 percent rock fragments.

A horizon: The hue is 7.5YR or 10YR; the value is 4 or 5 dry, 2 or 3 moist; and the chroma is 1 or 2. The reaction is very strongly acid through moderately acid.

Bw horizon: The hue is 7.5YR or 10YR; the value is 5 or 6 dry, 3 to 5 moist; and the chroma is 2 through 4. The texture typically is loam or sandy loam. The clay

content is 15 to 27 percent. The particle-size control section has 15 to 27 percent clay. The reaction is very strongly acid through moderately acid.

Tesajo Series

The Tesajo series consists of very deep, moderately well drained soils on terraces and flood plains. These soils formed in alluvium derived from mixed sources. The slopes range from 0 to 2 percent. The elevation ranges from 5,800 to 7,100 feet. Average annual precipitation ranges from 13 to 16 inches, and average annual air temperature ranges from 47 to 52 degrees F.

These soils are loamy-skeletal, mixed, superactive, mesic Cumulic Haplustolls.

A typical pedon of Tesajo gravelly sandy loam is in an area of Umbarg-Winner-Tesajo complex, 0 to 2 percent slopes, located about 2,340 feet north and 1,940 feet west of the southeast corner of sec. 31, T. 36 N., R. 13 W., Cortez Soil Survey Area, Colorado:

- A—0 to 3 inches; very dark grayish brown (10YR 3/2) gravelly sandy loam, very dark brown (10YR 2/2) moist; weak fine granular structure; soft, very friable, nonsticky and nonplastic; 25 percent gravel and 5 percent cobbles; neutral (pH 6.8); clear wavy boundary.
- AC1—3 to 11 inches; dark grayish brown (10YR 4/2) very cobbly sandy loam, very dark brown (10YR 2/2) moist; weak medium subangular blocky structure; slightly hard, very friable, nonsticky and nonplastic; 35 percent gravel and 20 percent cobbles; neutral (pH 6.8); gradual wavy boundary.
- AC2—11 to 19 inches; dark grayish brown (10YR 4/2) extremely cobbly sandy loam, very dark grayish brown (10YR 3/2) moist; massive; slightly hard, very friable, nonsticky and nonplastic; 30 percent gravel and 35 percent cobbles; neutral (pH 7.0); clear wavy boundary.
- AC3—19 to 36 inches; grayish brown (10YR 5/2) extremely cobbly loamy sand, very dark grayish brown (10YR 3/2) moist; single grained; loose, loose, nonsticky and nonplastic; 25 percent gravel, 30 percent cobbles, and 10 percent stone; neutral (pH 7.0); clear wavy boundary.
- ACg—36 to 60 inches; dark grayish brown (10YR 4/2) extremely cobbly sandy loam, very dark brown (10YR 2/2) moist; single grained; loose, loose, nonsticky and nonplastic; 25 percent gravel, 30 percent cobbles, and 10 percent stones; thin dark coatings on rock fragments; few fine faint strong brown (7.5YR 5/6) moist, masses of iron concentrations; neutral (pH 7.2).

The mollic epipedon is 20 to 60 inches thick. The particle-size control section has 10 to 18 percent clay and 35 to 80 percent rock fragments.

A seasonal high water table usually is at a depth of 48 to 72 inches from April through August. The reaction is neutral throughout.

A horizon: The hue is 7.5YR or 10YR; the value is 3 to 5 dry, 2 or 3 moist; and the chroma is 2 or 3.

AC horizons: The hue is 7.5YR or 10YR; the value is 4 or 5 dry, 2 through 4 moist; and the chroma is 2 or 3.

Tombac Series

The Tombac series consists of very deep, well drained soils on mesas. These soils formed in slope alluvium over residuum derived dominantly from Dakota sandstone and shale. The slopes range from 0 to 15 percent. The elevation ranges from 8,200 to 8,900 feet. Average annual precipitation ranges from 20 to 25 inches, and average annual air temperature ranges from 40 to 42 degrees F.

These soils are fine, smectitic, frigid Typic Paleustolls.

A typical pedon of Tombac loam is in an area of Maudrey-Tombac complex, 0 to 15 percent slopes, located about 1,300 feet east and 1,100 feet north of the southwest corner of sec. 28, T. 38 N., R. 13 W.:

O_e—0 to 1 inch; intermediately decomposed needles and twigs.

A₁—1 inch to 3 inches; very dark grayish brown (10YR 3/2) loam, black (10YR 2/1) moist; weak fine granular structure; hard, friable, slightly sticky and plastic; many very fine roots; many very fine continuous pores; neutral (pH 6.8); clear smooth boundary.

A₂—3 to 12 inches; very dark grayish brown (10YR 3/2) loam, black (10YR 2/1) moist; moderate medium subangular blocky structure; very hard, friable, sticky and plastic; common very fine, few medium, and coarse roots; many very fine continuous pores; 2 percent gravel and 3 percent cobbles; neutral (pH 6.8); clear smooth boundary.

E/Bt—12 to 16 inches; 60 percent E, pale brown (10YR 6/3) loam; brown (10YR 4/3) moist and 40 percent B, brown (7.5YR 5/4) clay loam, brown (7.5YR 4/4) moist; moderate medium subangular blocky structure; very hard, firm, sticky and plastic; few very fine and common fine roots; many very fine continuous pores; few faint clay films on faces of peds of the B part; neutral (pH 6.8); gradual wavy boundary.

Bt₁—16 to 26 inches; strong brown (7.5YR 5/6) clay, strong brown (7.5YR 4/6) moist; strong medium prismatic structure parting to strong medium angular blocky; extremely hard, extremely firm, very sticky and plastic; few fine, medium, and coarse roots; common very fine continuous pores; many prominent clay films on the faces of peds; neutral (pH 6.8); gradual wavy boundary.

Bt₂—26 to 37 inches; reddish yellow (7.5YR 6/6) clay, light brown (7.5YR 6/5) moist; few fine faint strong brown (7.5YR 4/6) lithochromic mottles; strong medium prismatic structure parting to strong medium angular blocky; extremely hard, extremely firm, very sticky and plastic; few coarse roots; few very fine continuous pores; many prominent clay films on the faces of peds; neutral (pH 6.8); gradual wavy boundary.

2C₁—37 to 46 inches; light gray (10YR 7/2) clay, pale brown (10YR 6/3) moist; few fine faint strong brown (7.5YR 5/6) lithochromic mottles; massive; extremely hard, extremely firm, very sticky and plastic; neutral (pH 6.8); clear wavy boundary.

2C₂—46 to 61 inches; light gray (10YR 7/1) clay, light yellowish brown (10YR 6/4) moist; few fine distinct brownish yellow (10YR 6/6) lithochromic mottles; massive; extremely hard, extremely firm, very sticky and plastic; neutral (pH 6.8).

The mollic epipedon is 10 to 16 inches thick. The particle-size control section has 35 to 55 percent clay and 0 to 15 percent rock fragments. The reaction is slightly acid or neutral throughout.

A horizon: The value is 3 through 5 dry, 2 or 3 moist; and the chroma is 1 or 2.

E/Bt horizon:

E part: The hue is 7.5YR or 10YR; the value is 5 or 6 dry, 3 or 4 moist; and the chroma is 3 or 4 dry or moist.

Bt part: The hue is 7.5YR or 10YR; the value is 5 or 6 dry, 4 or 5 moist; and the chroma is 4 through 6 dry or moist. The texture is clay loam or clay.

Bt₁ and Bt₂ horizons: The hue is 7.5YR or 10YR; the value is 5 or 6 dry, 4 through 6 moist; and the chroma is 5 or 6 dry or moist. The texture is clay loam or clay.

Tuckerville Series

The Tuckerville series consists of very deep, well drained soils on mountain slopes. These soils formed in slope alluvium, colluvium, and outwash derived mostly from granite and sandstone. The slopes range from 10 to 60 percent. The elevation ranges

from 8,500 to 10,000 feet. The average annual precipitation ranges from 25 to 35 inches. The average annual air temperature ranges from 36 to 42 degrees F.

These soils typically are loamy-skeletal, mixed, superactive Ustic Glossocryalfs.*

A typical pedon of Tuckerville very stony sandy loam, 15 to 55 percent slopes, is located about 500 feet south and 200 feet east of the northwest corner of sec. 33, T. 37 N., R. 7 W.

Oi—0 to 3 inches; partly decomposed leaves and needles.

A—3 to 6 inches; brown (7.5YR 5/2) very stony sandy loam, brown (7.5YR 4/2) moist; weak fine granular structure; soft, very friable, nonsticky and nonplastic; 10 percent gravel, 15 percent cobbles, and 20 percent stones; neutral (pH 6.8); clear smooth boundary.

E—6 to 21 inches; pinkish gray (7.5YR 7/2) very stony sandy loam, brown (7.5YR 5/2) moist; weak fine granular structure; soft, very friable, nonsticky and nonplastic; 10 percent gravel, 15 percent cobbles, and 20 percent stones; neutral (pH 6.6); clear smooth boundary.

E/B—21 to 26 inches; (60 percent E) pinkish gray (7.5YR 7/2) very stony sandy loam, brown (7.5YR 5/3) moist, and (40 percent B) reddish brown (5YR 5/3) very stony sandy clay loam, reddish brown (5YR 4/3) moist; weak medium subangular blocky structure that parts to moderate medium granular; slightly hard, friable, slightly sticky and slightly plastic; common distinct clay films on faces of peds of the B part; 10 percent gravel, 20 percent cobbles, and 15 percent stones; neutral (pH 6.6); clear smooth boundary.

Bt—26 to 47 inches; reddish brown (5YR 5/4) very stony sandy clay loam, reddish brown (5YR 4/4) moist; moderate medium subangular blocky structure; hard, friable, sticky and plastic; many distinct clay films on faces of peds; 10 percent gravel, 10 percent cobbles, and 20 percent stones; slightly acid (pH 6.4); gradual wavy boundary.

C—47 to 63 inches; light reddish brown (5YR 6/4) extremely stony sandy loam, reddish brown (5YR 5/4) moist; massive; hard, very friable, slightly sticky and slightly plastic; 15 percent gravel, 25 percent cobbles, and 35 percent stones; neutral (pH 6.6).

The depth to the top of the argillic horizon is 10 to 24 inches from the mineral soil surface. The particle-size control section has 20 to 35 percent clay and 35 to 80 percent rock fragments.

A horizon: The hue is 5YR or 7.5YR; the value is 4 or 5 dry, 2 to 4 moist; and the chroma is 1 through 3. The texture typically is loam, stony loam or very stony sandy loam. The reaction is slightly acid or neutral.

E horizon: The hue is 5YR or 7.5YR; the value is 6 to 8 dry, 4 to 7 moist; and the chroma is 1 to 3. The texture of the fine-earth fraction is sandy loam or loam. The particle-size control section has 15 to 65 percent rock fragments. The reaction is slightly acid or neutral.

E/B horizon:

E part: The hue is 5YR or 7.5YR; the value is 5 to 8 dry, 4 to 7 moist; and the chroma is 1 to 3, dry or moist. The texture of the fine-earth fraction is sandy loam.

B part: The hue is 2.5YR or 5YR; the value is 5 or 6 dry, 4 or 5 moist; and the chroma is 2 through 6, dry or moist. The texture of the fine-earth fraction is sandy clay loam, loam, or clay loam. The particle-size control section has 35 to 80 percent rock fragments. The reaction is moderately acid to neutral.

Bt horizon: The hue is 2.5YR or 5YR; the value is 5 or 6 dry, 4 or 5 moist; and the chroma is 2 through 6. The texture of the fine-earth fraction typically is sandy clay loam, loam, or clay loam with rock fragment modifiers. The reaction is moderately acid to neutral.

C horizon: The hue is 2.5YR or 5YR. The texture is sandy loam or sandy clay loam with rock fragment modifiers. The reaction is moderately acid to neutral.

* This soil in map units 155 and 160 is taxadjunct to the series because it is more moist in the soil moisture control section. In these map units the classification is loamy-skeletal, mixed, superactive Eutric Glossocryalfs.

Typic Cryaquents

Typic Cryaquents are very deep, poorly drained and very poorly drained soils on valley floors, flood plains and in depressions on mesas. These soils formed in alluvium derived from mixed sources. The slopes range from 0 to 5 percent. The elevation ranges from 8,500 to 13,000 feet. The average annual precipitation ranges from 20 to 45 inches. The average annual air temperature ranges from 28 to 38 degrees F.

These soils are Typic Cryaquents.

A reference pedon of Typic Cryaquents is in an area of Typic Cryaquents-Cryaquolls-Cryofibrists complex, 0 to 5 percent slopes, located south of Silverton, in the northwest quarter of sec. 20, T. 41 N., R. 7 W.:

Oi—0 to 3 inches; organic material.

A—3 to 11 inches; brown (10YR 5/3) loam, dark grayish brown (10YR 4/2) moist; weak fine granular structure; soft, very friable, non sticky and non plastic; many large distinct yellowish brown (10YR 5/6) iron concentrations; neutral (pH 7.0); gradual wavy boundary.

C—11 to 63 inches; light brownish gray (10YR 6/2) very gravelly sandy loam stratified with ver gravelly loamy sand, brown (10YR 4/3) moist; massive; soft, very friable, nonsticky and nonplastic; 25 percent gravel, 15 percent cobbles, and 15 percent stones; many large distinct yellowish brown (10YR 5/6) masses of iron concentrations; neutral (pH 6.8).

The particle-size control section has 10 to 60 percent rock fragments. A seasonal high water table usually is at a depth of 6 to 20 inches in May and June. This soil is subject to brief periods of flooding.

A horizon: The hue is 5YR through 10YR; the value is 5 through 6 dry, 3 or 4 moist; and the chroma is 1 through 3. The reaction is moderately acid through neutral.

C horizon: The hue is 5YR through 10YR; the value is 5 through 7 dry, 3 through 5 moist; and the chroma is 1 through 6. The texture is variable ranging from loamy sand to sandy clay loam with varying percentages and sizes of rock fragments. The reaction is moderately acid through neutral.

Typic Cryorthents

Typic Cryorthents are very deep, well drained soils on mountain slopes and alluvial fans. These soils formed in colluvium and slope alluvium derived mostly from rhyolite. The slopes range from 30 to 75 percent. The elevation ranges from 9,000 to 11,500 feet. The average annual precipitation ranges from 20 to 35 inches. The average annual air temperature ranges from 30 to 40 degrees F.

These soils are Typic Cryorthents.

A reference pedon of Typic Cryorthents is in an area of Typic Cryorthents-Rubble land complex, 30 to 75 percent slopes, located at the mouth of Eureka Gulch, in the northwest quarter of sec. 19, T. 42 N., R. 6 W.:

A—0 to 5 inches; brown (7.5YR 5/2) extremely stony loam, brown (7.5YR 4/2) moist; moderate fine granular structure; soft, very friable, nonsticky and nonplastic; 25

percent gravel and 50 percent stones and cobbles; neutral (pH 6.8); clear wavy boundary.

C—5 to 60 inches; light reddish brown (5YR 6/3) extremely stony loam, reddish brown (5YR 4/3) moist; massive; soft, very friable, nonsticky and nonplastic; 25 percent gravel and 50 percent stones and cobbles; neutral, (pH 6.8).

The particle-size control section has 50 to 80 percent rock fragments. The reaction is moderately acid through neutral.

A horizon: The hue is 5YR through 10YR; the value is 4 through 6 dry, 3 through 5 moist; and the chroma is 2 through 4.

C horizon: The hue is 5YR through 10YR; the value is 5 through 6 dry, 4 through 5 moist; and the chroma is 3 through 6. The texture is loam, sandy loam, or sandy clay loam with varying percentages and sizes of rock fragments.

Umbarg Series

The Umbarg series consists of very deep, moderately well drained soils on low terraces and flood plains. These soils formed in alluvium derived from mixed sources. The slopes range from 0 to 5 percent. The elevation ranges from 5,800 to 7,100 feet. Average annual precipitation ranges from 13 to 16 inches, and average annual air temperature ranges from 47 to 52 degrees F.

These soils are fine-loamy, mixed, superactive, mesic Cumulic Haplustolls.

A typical pedon of Umbarg loam, 0 to 5 percent slopes, is located about 300 feet east and 2,300 feet north of the southwest corner of sec. 28, T. 39 N., R. 16 W.:

A1—0 to 9 inches; grayish brown (10YR 5/2) loam, very dark grayish brown (10YR 3/2) moist; moderate fine subangular blocky structure; slightly hard, friable, slightly sticky and slightly plastic; slightly effervescent; neutral (pH 7.2); clear smooth boundary.

A2—9 to 18 inches; grayish brown (10YR 5/2) loam, very dark grayish brown (10YR 3/2) moist; weak fine subangular blocky structure; slightly hard, friable, slightly sticky and slightly plastic; slightly effervescent; neutral (pH 7.2); clear smooth boundary.

A3—18 to 25 inches; brown (10YR 5/3) loam, very dark grayish brown (10YR 3/2) moist; weak fine subangular blocky structure; slightly hard, friable, slightly sticky and plastic; slightly alkaline (pH 7.4); gradual wavy boundary.

Ab—25 to 34 inches; black (10YR 2/1) clay loam, black (10YR 2/1) moist; moderate medium subangular blocky structure; extremely hard, extremely firm, slightly sticky and plastic; slightly alkaline (pH 7.4); clear smooth boundary.

C1—34 to 44 inches; brown (10YR 4/3) clay loam, very dark grayish brown (10YR 3/2) moist; massive; very hard, firm, sticky and plastic; slightly alkaline (pH 7.6); clear wavy boundary.

C2—44 to 48 inches; brown (10YR 5/3) clay loam, very dark grayish brown (10YR 3/2) moist; massive; very hard, firm, slightly sticky and plastic; strongly effervescent; moderately alkaline (pH 8.0); clear wavy boundary.

C3—48 to 60 inches; brown (10YR 5/3) silty clay loam, very dark grayish brown (10YR 3/2) moist; massive; very hard, firm, sticky and plastic; strongly effervescent; moderately alkaline (pH 8.0).

The mollic epipedon is 40 to 60 inches thick. A seasonal high water table is at a depth of 36 to 60 inches from May through July. The soil is subject to rare flooding in the spring and early summer. The particle-size control section has 18 to 35 percent clay and 0 to 5 percent rock fragments. Some pedons have Bw horizons.

A horizon: The hue is 10YR; the value is 4 or 5 dry, 2 or 3 moist; and the chroma is 1 through 3. The reaction is neutral or slightly alkaline.

AB horizon: The hue is 10YR; the value is 2 to 4 dry, 2 or 3 moist; and the chroma is 1 or 2. The texture is loam or clay loam. The reaction is neutral to moderately alkaline.

C horizon: The hue is 10YR; the value is 4 through 6 dry, 3 or 4 moist; and the chroma is 2 or 3. The texture is loam, clay loam, or silty clay loam. Some pedons have very gravelly modifiers. The reaction is slightly alkaline or moderately alkaline.

Ustifluvents

Ustifluvents consist of very deep, well drained or moderately well drained soils on flood plains. These soils formed in alluvium derived from mixed sources. The slopes range from 0 to 5 percent. The elevation ranges from 7,100 to 8,500 feet. Average annual precipitation ranges from 18 to 22 inches, and average annual air temperature ranges from 43 to 47 degrees F.

These soils are Ustifluvents.

A reference pedon of Ustifluvents is in an area of Endoaquolls-Ustifluvents complex, 0 to 5 percent slopes, located in the northwest quarter of the southeast quarter of sec. 2, T. 38 N., R. 14 W.:

- A—0 to 6 inches; reddish brown (5YR 5/3) loam, dark reddish brown (5YR 3/3) moist; moderate fine granular structure; soft, very friable, nonsticky and nonplastic; common medium and fine roots; neutral (pH 7.0); clear smooth boundary.
- AC—6 to 17 inches; yellowish red (5YR 5/6) and reddish gray (5YR 5/2) loam stratified with fine sandy loam; reddish brown (5YR 4/3) moist; moderate medium granular structure; soft, very friable, nonsticky, and nonplastic; common medium and fine roots; neutral (pH 7.0); clear smooth boundary.
- C1—17 to 24 inches; reddish brown (5YR 5/3) and light reddish brown (5YR 6/3) sandy loam stratified with loam, reddish brown (5YR 4/3) moist; weak medium subangular blocky structure; soft, very friable, nonsticky and nonplastic; common medium and fine roots; common large pores; neutral (pH 7.0); clear smooth boundary.
- C2—24 to 30 inches; reddish gray (5YR 5/2) and light reddish brown (5YR 6/3) loam stratified with fine sandy loam, dark reddish gray (5YR 4/2) moist; weak medium subangular blocky structure; soft, very friable, nonsticky and nonplastic; common medium roots; common medium distinct (10YR 4/4) masses of iron concentrations; neutral (pH 7.0); clear smooth boundary.
- 2C3—30 to 60 inches; stratified sand, gravel, and cobbles.

Ustifluvents are quite variable. A seasonal high water table is at a depth of 30 to 60 inches from April through June. The depth to contrasting 2C horizons ranges from 20 to 60 inches or more. Thickness and arrangement of layers vary from one area to another.

A and upper C horizons: The hue is 2.5YR through 10YR. The texture of the upper part of the particle-size control section is stratified sandy loam to loam. The reaction is slightly acid or neutral.

2C horizon: The particle-size control section has 60 to 90 percent rock fragments.

Ustolls

Ustolls consist of shallow to very deep, well drained soils on mountain slopes and canyon side slopes. These soils formed in colluvium and slope alluvium derived from sandstone and shale. The slopes range from 40 to 90 percent. The elevation ranges from 6,600 to 8,600 feet. The average annual precipitation ranges from 15 to 22 inches, the average annual air temperature ranges from 40 to 45 degrees F.

These soils are Ustolls.

A reference pedon of Ustolls is in an area of Ustolls-Rock outcrop complex, 40 to 90 percent slopes, about 2,200 feet east and 1,400 feet south of the northwest corner of sec. 36, T 40 N., R. 14 W.:

- A—0 to 11 inches, dark grayish brown (10YR 4/2) stony loam, very dark grayish brown (10YR 3/2) moist; moderate fine granular structure; soft, very friable, slightly sticky and slightly plastic; 5 percent gravel, 10 percent cobbles, 10 percent stones, and 2 percent boulders; neutral (pH 7.0); clear wavy boundary.
- BA—11 to 18 inches; brown (10YR 5/3) stony loam, brown (10YR 4/3) moist; moderate fine subangular blocky structure parting to moderate medium granular; slightly hard, friable, slightly sticky and slightly plastic; 10 percent gravel, 10 percent cobbles, 10 percent stones, and 2 percent boulders; neutral (pH 7.0); clear smooth boundary.
- Bt1—18 to 30 inches; light brown (7.5YR 6/4) very cobbly clay loam, brown (7.5YR 5/4) moist; moderate medium subangular blocky structure; hard, firm, sticky and plastic; many prominent clay films on faces of peds; 15 percent gravel, 20 percent cobbles, and 10 percent stones; neutral (pH 6.8); gradual wavy boundary.
- Bt2—30 to 42 inches; light brown (7.5YR 6/4) very cobbly clay loam, brown (7.5YR 5/4) moist; moderate medium subangular blocky structure; hard, firm, sticky and plastic; many prominent clay films on faces of peds; 20 percent gravel, 25 percent cobbles, and 10 percent stones; neutral (pH 6.8); gradual wavy boundary.
- C—42 to 60 inches; reddish yellow (7.5YR 7/6) very stony clay, reddish yellow (7.5YR 6/6) moist; massive; very hard, very firm, very sticky and very plastic; 15 percent gravel, 15 percent cobbles, and 20 percent stones; neutral (pH 6.8).

Bedrock is at a depth of 10 to 60 inches or more. The mollic epipedon is 7 to 24 inches thick. The particle-size control section has 30 to 80 percent rock fragments. The Bt horizon is not present in some pedons. Some pedons have Bw horizons that generally have the lower clay content.

A horizon: The hue is 7.5YR or 10YR; the value is 4 or 5 dry, 2 or 3 moist; and the chroma is 1 through 3. The texture is stony loam or very cobbly loam. The reaction is slightly acid to slightly alkaline.

Bt horizons: The hue is 5YR through 10YR; the value is 4 through 7 dry, 3 through 6 moist; and the chroma is 2 through 6. The texture of the fine-earth fraction is loam, clay loam, or clay. The particle-size control section has 10 to 45 percent clay and 30 to 80 percent rock fragments. The reaction is neutral or slightly alkaline.

C horizon: The hue is 5YR through 10YR. The reaction is neutral or slightly alkaline.

Ute Series

The Ute series consists of very deep, poorly drained soils in drainageways and depressions on mesas. These soils formed in alluvium derived from shale and sandstone. The slopes range from 0 to 6 percent. The elevation ranges from 10,000 to 11,500 feet. Mean annual precipitation ranges from 30 to 45 inches and mean annual temperature ranges from 32 to 38 degrees F.

These soils are fine, smectitic Argic Cryaquolls

A typical pedon of Ute loam is in an area of Ute-Frisco complex, 0 to 20 percent slopes, located in Dolores County, about 3.5 miles northeast of Dunton near Forest Service Road 535; in an unsectionized area, about 2,300 feet south and 100 feet west of the projected northeast corner of sec. 25, T. 41 N., R. 11 W.

Oe—0 to 2 inches; partially decomposed organic material.

A—2 to 7 inches; very dark grayish brown (10YR 3/2) loam, very dark brown (10YR 2/2) moist; medium and fine granular structure; soft, very friable, slightly sticky

and slightly plastic; many fine roots; common discontinuous pores; slightly acid (pH 6.3); clear smooth boundary.

BAt—7 to 13 inches; very dark gray (10YR 3/1) clay loam, black (10YR 2/1) moist; weak medium subangular blocky structure; common faint clay films on faces of peds; common very fine roots; common fine discontinuous pores; common fine distinct yellowish brown (10YR 5/4) masses of iron concentrations; slightly acid (pH 6.3); clear smooth boundary.

Btg—13 to 28 inches; gray (10YR 5/1) clay, dark gray (10YR 4/1) moist; weak medium subangular blocky structure parting to weak fine subangular blocky; very hard, very firm, very sticky and very plastic; common distinct clay films on faces of peds; common very fine roots; common fine discontinuous pores; 10 percent gravel; common medium distinct yellowish brown (10YR 5/6) masses of iron concentrations; neutral (pH 7.0); gradual smooth boundary.

BCg—28 to 45 inches; gray (10YR 5/1) clay loam, dark gray (10YR 4/1) moist; massive; hard, firm, sticky and plastic; 10 percent gravel; strongly effervescent; common fine distinct yellowish brown (10YR 5/6) masses of iron concentrations; slightly alkaline (pH 7.6).

Cg—45 to 62 inches; gray (10YR 6/1) clay loam, dark gray (10YR 4/1) moist; massive; hard, firm, sticky and plastic; 10 percent gravel; strongly effervescent; few medium distinct dark yellowish brown (10YR 4/4) masses of iron concentrations; slightly alkaline.

The mollic epipedon is 10 to 25 inches thick. The depth to calcareous material ranges from 24 to more than 60 inches. The particle-size control section has 35 to 50 percent clay and 0 to 25 percent rock fragments. A high water table usually is at a depth of 6 to 18 inches year-round.

A horizon: The hue is 7.5YR through 5Y; the value is 3 through 5 dry, 2 or 3 moist; and the chroma is 0 through 2. The reaction is slightly acid or neutral.

Btg horizon: The hue is 7.5YR through 5Y; the value is 3 through 6 dry, 2 through 5 moist; and the chroma is 0 through 2. Iron concentrations within this horizon are distinct or prominent. The texture typically is clay loam or clay with gravelly rock modifiers in some horizons of some pedons. The reaction is slightly acid through slightly alkaline.

Cg horizon: The hue is 7.5YR through 5Y. The texture typically is loam or clay loam with or without a gravelly modifier. The reaction is neutral or slightly alkaline.

Valto Series

The Valto series consists of shallow, well drained soils on mountain slopes, canyon side slopes and ridges. These soils formed in residuum derived mostly from sandstone. The slopes range from 10 to 80 percent. The elevation ranges from 7,100 to 9,600 feet. The average annual precipitation ranges from 20 to 28 inches. The average annual air temperature ranges from 40 to 46 degrees F.

These soils are loamy-skeletal, mixed, superactive, frigid Lithic Haplustepts.

A typical pedon of Valto very stony fine sandy loam is in an area of Valto-Rock outcrop complex, 10 to 65 percent slopes, located above Lemon Reservoir, in the northeast quarter of the southwest quarter of sec. 19, T. 37 N., R. 7 W.:

Oi—0 to 2 inches; forest litter of pine needles.

A—2 to 4 inches; dark reddish gray (5YR 4/2) very stony fine sandy loam, dark reddish brown (5YR 3/2) moist; weak medium platy structure that parts to weak fine granular; soft, very friable, nonsticky and nonplastic; 10 percent gravel, 25 percent cobbles, and 25 percent stones; neutral (pH 7.0); abrupt smooth boundary.

Bw—4 to 14 inches; light reddish brown (5YR 6/3) very stony fine sandy loam, reddish brown (5YR 5/3) moist; weak fine granular structure; soft, very friable; 10 percent gravel, 20 percent cobbles, and 25 percent stones; neutral (pH 7.0); clear smooth boundary.

R—14 inches; hard fractured sandstone bedrock.

Bedrock is at a depth of 10 to 20 inches from the mineral soil surface. The particle-size control section has 35 to 75 percent rock fragments.

A horizon: The hue is 2.5YR through 7.5YR; the value is 4 through 6 dry, 2 through 4 moist; and the chroma is 2 through 4. The texture of the fine-earth fraction typically is fine sandy loam with rock fragment modifiers. The reaction is slightly acid or neutral.

Bw horizon: The hue is 2.5YR through 7.5YR; the value is 5 through 7 dry, 4 through 6 moist; and the chroma is 2 through 4. The texture of the fine-earth fraction typically is fine sandy loam with rock fragment modifiers. The particle-size control section has 5 to 18 percent clay. The reaction is slightly acid or neutral.

Varden Series

The Varden series consists of very deep, well drained soils on alluvial fans and mountain slopes. These soils formed in colluvium, alluvium, and slope alluvium derived mostly from rhyolite, tuff, and sandstone. The slopes range from 15 to 65 percent. The elevation ranges from 9,000 to 11,500 feet. The average annual precipitation ranges from 25 to 45 inches. The average annual air temperature ranges from 32 to 38 degrees F.

These soils are loamy-skeletal over fragmental, mixed, superactive Typic Haplocryolls.

A typical pedon of Varden very cobbly loam is in an area of Quazar-Varden complex, 15 to 65 percent slopes, located along South Mineral Creek Road, about 2,400 feet east and 150 feet north of the southwest corner of sec. 19, T. 41 N., R. 8 W.:

A—0 to 15 inches; dark grayish brown (10YR 4/2) very cobbly loam, very dark brown (10YR 2/2) moist; weak fine granular structure; soft, very friable, nonsticky and nonplastic; 15 percent gravel, 30 percent cobbles, and 10 percent stones; neutral (pH 6.6); gradual wavy boundary.

2C1—15 to 30 inches; brown (7.5YR 5/2) extremely cobbly loam, brown (7.5YR 4/2) moist; weak fine granular structure; soft, very friable, nonsticky and nonplastic; about half of volume not occupied by rock fragments is voids; 10 percent gravel, 60 percent cobbles, and 15 percent stones; neutral (pH 6.6); gradual wavy boundary.

2C2—30 to 60 inches; brown (7.5 YR 5/2) extremely cobbly loam; brown (7.5YR 4/2) moist; massive, slightly hard, friable, slightly sticky and slightly plastic; about half of volume not occupied by rock fragments is voids; 10 percent gravel, 60 percent cobbles, and 15 percent stones; neutral (pH 6.6).

The mollic epipedon ranges from 10 to 16 inches thick. The depth to the top of the fragmental horizon ranges from 13 to 35 inches. The particle-size control section has 35 to 65 percent rock fragments in the upper part of the horizon and 75 to 95 percent in the lower part, and voids range from 5 to 20 percent in the lower part. The texture of the fine-earth fraction typically is loam or sandy clay loam in the upper part of the horizon and 10 to 27 percent in the lower part. The reaction is slightly acid or neutral.

A horizon: The hue is 5YR through 10YR; the value is 4 or 5 dry, 2 or 3 moist; and the chroma is 1 through 3.

C horizon: The hue is 5YR through 10YR; the value is 5 through 7 dry, 4 or 5 moist; and the chroma is 2 through 6.

Wander Series

The Wander series consists of very deep, well drained soils on mountain slopes and structural benches. These soils formed in colluvium and slope alluvium derived mostly from sandstone and shale. The slopes range from 5 to 60 percent. The elevation ranges from 8,000 to 11,500 feet. The average annual precipitation ranges from 30 to 45 inches. The average annual air temperature ranges from 32 to 38 degrees F.

These soils are loamy-skeletal, mixed, superactive Typic Argicryolls.

A typical pedon of Wander very cobbly loam is in an area of Wander-Hotter-Hourglass complex, 30 to 60 percent slopes, located west of Purgatory ski area, about 750 feet south and 1,300 feet west of the northeast corner of sec. 31, T. 39 N., R. 10 W.:

- A—0 to 14 inches; dark grayish brown (10YR 4/2) very cobbly loam, very dark grayish brown (10YR 3/2) moist; moderate fine granular structure; soft, very friable, nonsticky and nonplastic; many fine and very fine roots, many fine pores; 15 percent gravel, 15 percent cobbles, and 10 percent stone; slightly acid (pH 6.1); gradual smooth boundary.
- Bt1—14 to 27 inches; brown (7.5YR 5/3) very cobbly clay loam, brown (7.5YR 4/3) moist; moderate medium subangular blocky structure; slightly hard, firm, slightly sticky and slightly plastic; few distinct clay films on faces of peds; few fine and very fine roots; few fine pores; 15 percent gravel, 20 percent cobbles, and 10 percent stones; slightly acid (pH 6.2); gradual wavy boundary.
- Bt2—27 to 40 inches; brown (7.5YR 5/3) very cobbly clay loam, brown (7.5YR 4/3) moist; moderate medium subangular blocky structure; hard, firm, slightly sticky and slightly plastic; few faint clay films on faces of peds; few fine roots; 15 percent gravel, 25 percent cobbles, and 10 percent stones; slightly acid (pH 6.2); gradual wavy boundary.
- C—40 to 60 inches; light brown (7.5YR 6/3) and reddish brown (5YR 5/3) very cobbly clay loam, brown (7.5YR 4/3) and dark reddish gray (5YR 4/2) moist; mixed materials due to variable parent material; massive; hard, firm, sticky and plastic; 15 percent gravel, 25 percent cobbles, and 15 percent stones; slightly acid (pH 6.3).

The mollic epipedon is 10 to 16 inches thick. The particle-size control section has 20 to 35 percent clay and 35 to 80 percent sandstone rock fragments. The reaction is moderately acid to neutral.

A horizon: The hue is 7.5YR or 10YR; the value is 3 through 5 dry, 2 or 3 moist; and the chroma is 1 through 3.

Bt horizon: The hue is 5YR or 7.5YR; the value is 5 or 6 dry, 4 or 5 moist; and the chroma is 2 through 6. The texture of the fine-earth fraction typically is clay loam, loam, or sandy clay loam with rock fragment modifiers of very cobbly or extremely cobbly.

C horizon: The hue is 5YR through 10YR. The texture is loam, clay loam, or sandy clay loam with rock fragment modifiers.

Wauquie Series

The Wauquie series consists of very deep, well drained soils on canyon side slopes and hills. These soils formed in colluvium and slope alluvium derived dominantly from sandstone and shale. The slopes range from 25 to 60 percent.

The elevation ranges from 6,000 to 8,200 feet. Average annual precipitation ranges from 13 to 16 inches. Average annual air temperature ranges from 47 to 50 degrees F. There are 5 percent stones on the surface.

These soils are loamy-skeletal, mixed, superactive, mesic Aridic Haplustalfs

A typical pedon of Wauquie very cobbly loam is in an area of Wauquie-Dolcan-Rock outcrop complex, 25 to 80 percent slopes, located about 400 feet east and 200 feet south of the northwest corner of sec. 20, T. 38 N., R. 15 W.:

- A—0 to 3 inches; brown (10YR 4/3) very cobbly loam, dark brown (10YR 3/3) moist; weak medium subangular blocky structure parting to weak fine granular; soft, very friable, slightly sticky and plastic; 25 percent gravel, 15 percent cobbles, and 5 percent stones; slightly alkaline (pH 7.6); clear wavy boundary.
- Bt—3 to 9 inches; yellowish brown (10YR 5/4) very cobbly loam, dark yellowish brown (10YR 4/6) moist; moderate fine subangular blocky structure; soft, friable, sticky and plastic; few distinct clay films on the faces of peds; 25 percent gravel, 15 percent cobbles, and 5 percent stones; slightly alkaline (pH 7.8); gradual wavy boundary.
- Btk—9 to 14 inches; yellowish brown (10YR 5/4) very cobbly clay loam, dark yellowish brown (10YR 4/6) moist; moderate medium subangular blocky structure parting to moderate fine subangular blocky; slightly hard, friable, sticky and plastic; common distinct clay films on the faces of peds; 25 percent gravel, 15 percent cobbles, and 5 percent stones; calcium carbonate on the bottom of rock fragments; strongly effervescent; slightly alkaline (pH 7.6); clear wavy boundary.
- Bk1—14 to 23 inches; pinkish white (7.5YR 8/2) gravelly clay loam; brown (7.5YR 5/4) moist; weak medium subangular blocky structure; slightly hard, friable, sticky and plastic; 15 percent gravel and 5 percent cobbles; common medium soft filaments of calcium carbonate; violently effervescent; moderately alkaline (pH 8.0); gradual wavy boundary.
- Bk2—23 to 32 inches; pinkish white (7.5YR 8/2) gravelly clay loam, brown (7.5YR 5/4) moist; massive; slightly hard, friable, sticky and plastic; 15 percent gravel and 5 percent cobbles; disseminated calcium carbonate; violently effervescent; moderately alkaline (pH 8.2); gradual wavy boundary.
- Bk3—32 to 60 inches; pinkish white (7.5YR 8/2) gravelly clay loam, brown (7.5YR 5/4) moist; weak medium subangular blocky structure; hard, friable, sticky and plastic; 15 percent gravel and 5 cobbles; many large soft masses and soft filaments of calcium carbonate; violently effervescent; moderately alkaline (pH 8.2).

The particle-size control section has 35 to 70 percent rock fragments. Secondary lime is at a depth of 5 to 24 inches.

A horizon: The hue is 7.5YR or 10YR; the value is 4 through 6 dry, 3 or 4 moist; and the chroma is 2 or 3. The reaction is neutral or slightly alkaline.

Bt horizon: The hue is 7.5YR or 10YR; the value is 5 or 6 dry, 3 or 4 moist; and the chroma is 2 through 6. The texture of the fine-earth fraction is loam or clay loam. The particle-size control section has 18 to 35 percent clay. The reaction is slightly alkaline or moderately alkaline.

Bk horizon: The hue is 7.5YR or 10YR. The calcium carbonate equivalent ranges from 5 to 10 percent.

Weminuche Series

The Weminuche series consists of very deep, well drained soils on mountain slopes and toeslopes of mountains. These soils formed in slope alluvium derived mostly from redbed sandstone. The slopes range from 5 to 75 percent. The elevation

ranges from 8,200 to 9,600 feet. The average annual precipitation ranges from 25 to 32 inches. The average annual air temperature ranges from 35 to 40 degrees F.

These soils are fine-loamy, mixed, superactive Ustic Haplocryalfs.

A typical pedon of Weminuche loam, 30 to 75 percent slopes, is located about 1,000 feet east and 800 feet north of the southwest corner of sec. 9, T. 36 N., R. 7 W.:

Oi—0 to 2 inches; partially decomposed organic material.

A—2 to 4 inches; reddish brown (5YR 4/3) loam, dark reddish brown (5YR 3/3) moist; weak very thin platy structure parting to moderate very fine granular; soft, very friable; 3 percent gravel and 3 percent cobbles; neutral (pH 7.2); clear wavy boundary.

E—4 to 11 inches; reddish brown (5YR 4/4) loam, dark reddish brown (5YR 3/4) moist; weak fine subangular blocky structure parting to weak very fine granular; soft, very friable, nonsticky and nonplastic; 3 percent gravel and 3 percent cobbles; neutral (pH 7.0); clear wavy boundary.

E/B—11 to 21 inches; (65 percent E) reddish brown (5YR 5/4) loam, reddish brown (5YR 4/4) moist, and (35 percent B) reddish brown (5YR 5/4) clay loam, dark red (2.5YR 3/6) moist; weak medium subangular blocky structure parting to weak fine granular; soft, very friable, slightly sticky and plastic; 5 percent gravel, 3 percent cobbles, and 1 percent stones; neutral (pH 6.8); clear wavy boundary.

Bt1—21 to 34 inches; reddish brown (5YR 5/4) clay loam, dark red (2.5YR 3/6) moist; weak medium prismatic structure parting to moderate medium angular blocky; slightly hard, very friable, slightly sticky and plastic; many distinct clay films on faces of peds and in pores; 8 percent gravel, 4 percent cobbles, and 2 percent stones; neutral (pH 6.8); clear wavy boundary.

Bt2—34 to 44 inches; red (2.5YR 5/6) gravelly clay loam, red (2.5YR 4/6) moist; weak medium prismatic structure parting to moderate medium subangular blocky; slightly hard, very friable, slightly sticky and plastic; many distinct clay films on faces of peds and in pores; 15 percent gravel, 3 percent cobbles, and 3 percent stones; neutral (pH 6.6); gradual wavy boundary.

BC—44 to 62 inches; red (2.5YR 4/6) clay loam, red (2.5YR 4/6) moist; weak medium subangular blocky structure; slightly hard, very friable, slightly sticky and plastic; 10 percent gravel, 3 percent cobbles, and 1 percent stones; neutral (pH 6.6).

The particle-size control section has 23 to 35 percent clay, 5 to 25 percent sandstone rock fragments, and 30 to 70 percent sand.

A horizon: The hue is 2.5YR or 5YR; the value is 4 or 5 dry, 3 or 4 moist; and the chroma is 2 through 4.

E horizon: The hue is 2.5YR or 5YR; the value is 4 through 6 dry, 3 or 4 moist; and the chroma is 3 or 4. The texture typically is loam or fine sandy loam. The reaction is slightly acid or neutral.

E/B horizon: The hue is 2.5YR or 5YR.

E part: The value is 4 to 6 dry, 3 or 4 moist; and the chroma is 3 or 4. The texture of the fine-earth fraction is loam or fine sandy loam.

B part: The value is 4 or 5 dry, 3 or 4 moist; and the chroma is 4 to 6. The texture of the fine-earth fraction is loam, sandy clay loam, or clay loam. Some pedons have gravelly texture modifiers. The reaction is slightly acid or neutral.

Bt horizon: The hue is 2.5YR or 5YR; the value is 4 or 5 dry, 3 or 4 moist; and the chroma is 4 through 6. The texture of the fine-earth fraction typically is clay loam, loam, or sandy clay loam, with gravelly modifiers in some pedons. The reaction is slightly acid or neutral.

BC horizon: The hue is 2.5YR through 7.5YR. The reaction is slightly acid or neutral.

Wetherill Series

The Wetherill series consists of very deep, well drained soils on mesas. These soils formed in eolian material derived from sandstone. The slopes range from 3 to 6 percent. The elevation ranges from 7,000 to 7,400 feet. Average annual precipitation ranges from 13 to 15 inches, and average annual air temperature ranges from 47 to 50 degrees F.

These soils are fine-silty, mixed, superactive, mesic Aridic Haplustalfs

A typical pedon of Wetherill loam, 3 to 6 percent slopes, is located 100 feet east and 1,500 feet north of the southwest corner of sec. 29, T. 38 N., R. 15 W.:

- A—0 to 6 inches; reddish brown (5YR 4/4) loam, dark reddish brown (5YR 3/4) moist; moderate medium platy structure parting to moderate medium subangular blocky; hard, very friable, nonsticky and nonplastic; many fine roots; neutral (pH 7.0); abrupt smooth boundary.
- Bt1—6 to 20 inches; yellowish red (5YR 4/6) clay loam, reddish brown (5YR 4/4) moist; moderate medium prismatic structure parting to moderate medium subangular blocky; very hard, friable, slightly sticky and plastic; few distinct clay films on faces of peds; many fine roots; neutral (pH 7.0); gradual smooth boundary.
- Bt2—20 to 47 inches; yellowish red (5YR 4/6) loam, reddish brown (5YR 4/4) moist; moderate medium prismatic structure parting to moderate medium subangular blocky; very hard, firm, sticky and plastic; few distinct clay films on faces of peds; common fine roots; neutral (pH 7.1); clear wavy boundary.
- Bk—47 to 60 inches; yellowish red (5YR 5/6) loam, reddish brown (5YR 4/4) moist; weak medium prismatic structure parting to weak medium subangular blocky; very hard, firm, sticky and plastic; common fine roots; many fine soft filaments of calcium carbonate and disseminated calcium carbonate; strongly effervescent; moderately alkaline (pH 8.0).

The depth to the base of the argillic horizon is 30 to 50 inches. The particle-size control section has 18 to 35 percent clay and less than 15 percent fine sand or coarser. The depth to secondary carbonates is 30 to 48 inches. The depth to the calcic horizon is 40 to 60 inches.

A horizon: The hue is 5YR or 7.5YR; the value is 4 or 5 dry, 3 or 4 moist; and the chroma is 2 through 4. The reaction is neutral or slightly alkaline.

Bt horizon: The hue is 5YR; the value is 4 through 6 dry, 3 through 5 moist; and the chroma is 3 through 6. The texture is clay loam, loam, silty clay loam, or sandy clay loam. The reaction is neutral or slightly alkaline.

Bk horizon: The hue is 5YR or 7.5YR. The reaction is moderately alkaline. The calcium carbonate equivalent ranges from 15 to 30 percent.

Whitecross Series

The Whitecross series consists of shallow or very shallow, well drained soils on alpine mountain slopes, valley floors, and ridges. These soils formed in slope alluvium and colluvium derived mostly from rhyolite, tuff, and similar volcanic rocks, and in a few places from granite and similar rocks. The slopes range from 15 to 75 percent. The elevation ranges from 11,500 to 13,800 feet. The average annual precipitation ranges from 35 to 60 inches. The average annual air temperature ranges from 28 to 34 degrees F.

These soils are loamy-skeletal, isotic Lithic Dystricrypts.

A typical pedon of Whitecross very stony sandy loam is in an area of Whitecross-Rock outcrop complex, 45 to 75 percent slopes, located in Kendall Gulch, about 600 feet east and 50 feet north of the southwest corner of sec. 22, T. 41 N., R. 7 W.:

Oi—0 to 1 inch; partly decomposed organic mat.

A—1 inch to 4 inches; brown (7.5YR 5/2) very stony sandy loam, brown (7.5YR 4/2) moist; weak fine granular structure, soft, very friable, nonsticky and nonplastic; 20 percent gravel, 10 percent cobbles, and 15 percent stones; many fine roots; strongly acid (pH 5.2), clear smooth boundary.

Bw1—4 to 10 inches; reddish brown (5YR 5/3) very gravelly loam, reddish brown (5YR 4/3) moist; weak fine granular structure; soft, very friable, nonsticky and nonplastic; 25 percent gravel, 10 percent cobbles, and 5 percent stones; many fine roots; strongly acid (pH 5.2); gradual wavy boundary.

Bw2—10 to 19 inches; light reddish brown (5YR 6/4) extremely gravelly sandy loam, reddish brown (5YR 4/4) moist; moderate medium granular structure; soft, very friable, nonsticky and nonplastic; 40 percent gravel, 15 percent cobbles, and 10 percent stones; few fine roots; strongly acid (pH 5.2); abrupt wavy boundary.

R—19 inches; fractured rhyolite bedrock.

Bedrock is at a depth of 7 to 20 inches from the mineral soil surface. The texture of the fine-earth fraction is sandy loam or loam. The particle-size control section has 10 to 18 percent clay and 35 to 80 percent volcanic rock fragments.

A horizon: The hue is 5YR or 7.5YR; the value is 5 through 7 dry, 3 or 4 moist; and the chroma is 2 or 3. The reaction is strongly acid or moderately acid.

Bw horizon: The hue is 5YR or 7.5YR; the value is 5 or 6 dry, 4 or 5 moist; and the chroma is 3 through 6. The reaction is very strongly acid through moderately acid.

Wiggler Series

The Wiggler series consists of shallow, well drained soils on hills. These soils formed in residuum derived dominantly from sandstone and shale. The slopes range from 20 to 60 percent. The elevation ranges from 7,800 to 8,200 feet. The average annual precipitation ranges from 16 to 18 inches, and the average annual air temperature ranges from 41 to 43 degrees F.

These soils are loamy, mixed, superactive, calcareous, frigid, shallow Typic Ustorthents.

A typical pedon of Wiggler channery loam is in an area of Pagoda-Coulterg-Wiggler complex, 10 to 60 percent slopes, about 3,400 feet west and 1,800 feet south of the northeast corner of sec. 12, T. 41 N., R. 14 W., San Miguel Soil Survey Area, Colorado:

A—0 to 4 inches; grayish brown (10YR 5/2) channery loam, dark grayish brown (10YR 4/2) moist; weak thin platy structure; soft, very friable, slightly sticky and plastic; 20 percent channers; violently effervescent; moderately alkaline (pH 8.2); clear smooth boundary.

C—4 to 10 inches; grayish brown (2.5Y 5/2) channery silty clay loam, dark grayish brown (2.5Y 4/2) moist; massive; slightly hard, very friable, slightly sticky and plastic; 35 percent channers; violently effervescent; moderately alkaline (pH 8.2); clear smooth boundary.

Cr—10 to 20 inches; partially weathered shale.

Paralithic contact is at a depth of 10 to 20 inches. The particle-size control section has 18 to 32 percent clay and 15 to 35 percent shale rock fragments.. The reaction is moderately alkaline.

A horizon: The hue is 10YR or 2.5Y; the value is 5 or 6 dry, 4 or 5 moist; and the chroma is 2 or 3.

C horizon: The hue is 10YR or 2.5Y; the value is 5 through 7 dry, 4 through 6 moist; and the chroma is 2 or 3.

Winner Series

The Winner series consists of very deep, somewhat poorly drained soils on flood plains. These soils formed in alluvium derived from mixed sources. The slopes range from 0 to 2 percent. The elevation ranges from 5,800 to 7,100 feet. Average annual precipitation ranges from 13 to 16 inches, and average annual air temperature ranges from 47 to 52 degrees F.

These soils are fine-loamy, mixed, superactive, calcareous, mesic Cumulic Endoaquolls.

A typical pedon of Winner clay loam is in an area of Umbarg-Winner-Tesajo complex, 0 to 2 percent slopes, located about 1,600 feet east and 900 feet north of the southwest corner of sec. 31, T. 36 N., R. 13 W., Cortez Soil Survey Area, Colorado:

Azg—0 to 4 inches; dark grayish brown (10YR 4/2) clay loam, very dark grayish brown (10YR 3/2) moist; moderate medium granular structure; hard, firm, slightly sticky and plastic; common fine soft filaments and soft masses of salts; 5 percent gravel; strongly effervescent; few fine faint yellowish brown (10YR 5/8) moist masses of iron concentrations; moderately alkaline (pH 8.0); abrupt smooth boundary.

ACzg—4 to 14 inches; dark grayish brown (10YR 4/2) clay loam, very dark grayish brown (10YR 3/2) moist; moderate medium subangular blocky structure; hard, firm, sticky and plastic; many fine soft masses and soft filaments of salt; 5 percent gravel; slightly effervescent; common fine prominent red (2.5YR 4/6) moist masses of iron concentrations; slightly alkaline (pH 7.6); clear smooth boundary.

ACz—14 to 23 inches; brown (10YR 5/3) clay loam, dark brown (10YR 3/3) moist; massive; very hard, firm, sticky and plastic; few fine soft masses of salts; 5 percent gravel; slightly effervescent; common fine distinct yellowish red (5YR 5/6) moist masses of iron concentrations; slightly alkaline (pH 7.6); gradual wavy boundary.

AC—23 to 31 inches; brown (10YR 5/3) clay loam, very dark grayish brown (10YR 3/2) moist; massive; very hard, firm, sticky and plastic; 5 percent gravel; slightly effervescent; few fine faint yellowish red (5YR 5/6) moist masses of iron concentrations; slightly alkaline (pH 7.6); clear wavy boundary.

2C—31 to 60 inches; brown (10YR 5/3) very stony sandy clay loam, brown (10YR 4/3) moist; massive; hard, friable, sticky and plastic; 15 percent gravel, 15 percent cobbles, and 30 percent stones; slightly effervescent; few fine faint yellowish brown (10YR 5/6) moist masses of iron concentrations; slightly alkaline (pH 7.4).

The mollic epipedon is 24 to 40 inches thick. A seasonal high water table usually is at a depth of 6 to 24 inches from April through June. The underlying skeletal material is at a depth of 26 to 40 inches. The particle-size control section has 20 to 35 percent clay and, above the 2C horizon, 0 to 15 percent rock fragments. Iron concentrations occur in all horizons. The reaction is slightly alkaline or moderately alkaline.

A horizon: The hue is 10YR; the value is 3 or 4 dry, 2 or 3 moist; and the chroma is 1 or 2.

AC horizons: The hue is 10YR; the value is 4 or 5 dry, 2 or 3 moist; and the chroma is 1 through 3.

Zigzag Series

The Zigzag series consists of shallow, well drained soils on hills and ridges. These soils formed in residuum weathered mostly from Mancos shale and sandstone. The slopes range from 5 to 80 percent. The elevation ranges from 6,500 to 7,500 feet.

Average annual precipitation ranges from 13 to 16 inches, and the average annual air temperature ranges from 46 to 50 degrees F.

These soils are clayey, smectitic, calcareous, mesic, shallow Aridic Ustorthents.

A typical pedon of Zigzag gravelly clay loam is in an area of Zigzag-Rock outcrop, shale complex, 15 to 30 percent slopes, about 1,200 feet east and 500 feet south of the northwest corner of sec. 33, T. 41 N, R. 15 W.

A—0 to 4 inches; pale brown (10YR 6/3) gravelly clay loam, brown (10YR 4/3) moist; moderate fine granular structure; soft, firm, sticky and plastic; 20 percent gravel; few fine roots; violently effervescent; moderately alkaline (pH 8.2); clear smooth boundary.

Bw—4 to 12 inches; pale brown (10YR 6/3) clay, brown (10YR 4/3) moist; weak medium subangular blocky structure; hard, firm, very sticky and very plastic; few fine roots; violently effervescent; moderately alkaline (pH 8.2); clear smooth boundary.

Cr—12 to 22 inches; shale bedrock.

The depth to underlying shale is 10 to 20 inches. The soils typically are calcareous throughout. The particle-size control section has 0 to 25 percent rock fragments, averaging 0 to 15 percent.

A horizon: The hue is 10YR or 2.5Y; the value is 5 or 6 dry, and 3 through 5 moist; and the chroma is 2 through 4. The reaction is slightly alkaline or moderately alkaline.

Bw horizon (a C in some pedons) : The hue is or 10YR or 2.5Y; the value is 5 through 7 dry, 4 or 5 moist; and the chroma is 2 through 4. The texture is clay, clay loam, or silty clay loam. The reaction is slightly alkaline or moderately alkaline.

Zoltay Series

The Zoltay series consists of very deep, well drained soils on mesas and hills. These soils formed in slope alluvium derived dominantly from sandstone and shale. The slopes range from 0 to 15 percent. The elevation ranges from 7,600 to 8,500 feet. The average annual precipitation ranges from 17 to 19 inches, and the average annual air temperature ranges from 41 to 45 degrees F.

These soils are fine, smectitic, frigid Pachic Argiustolls.

A typical pedon of Zoltay loam, 3 to 15 percent slopes, is located about 1,700 feet west and 800 feet north of the southeast corner of sec. 36, T. 44 N., R. 14 W., San Miguel Soil Survey Area, Colorado:

A—0 to 6 inches; brown (10YR 4/3) loam, dark brown (7.5YR 3/2) moist; weak fine granular structure; soft, very friable, slightly sticky and slightly plastic; slightly alkaline (pH 7.4); clear smooth boundary.

BA—6 to 14 inches; dark grayish brown (10YR 4/2) clay loam, dark brown (7.5YR 3/2) moist; weak fine subangular blocky structure; slightly hard, friable, slightly sticky and slightly plastic; neutral (pH 7.0); gradual smooth boundary.

Bt1—14 to 23 inches; very dark grayish brown (10YR 3/2) cobbly clay, very dark gray (10YR 3/1) moist; weak moderate prismatic structure parting to strong medium angular blocky; very hard, firm, sticky and plastic; many distinct clay films on faces of peds; 10 percent gravel and 10 percent cobbles; neutral (pH 7.0); clear wavy boundary.

Bt2—23 to 29 inches; yellowish brown (10YR 5/4) cobbly clay, brown (7.5YR 4/4) moist; medium coarse angular blocky structure parting to strong medium angular blocky; very hard, firm, sticky and plastic; many distinct clay films on faces of peds; 10 percent gravel, 15 percent cobbles, and 5 percent stones; slightly effervescent; slightly alkaline (pH 7.6); clear wavy boundary.

Bk1—29 to 46 inches; yellowish brown (10YR 5/6) very cobbly clay loam, dark yellowish brown (10YR 4/4) moist; weak medium and coarse subangular blocky structure; hard, firm, sticky and plastic; 25 percent gravel, 15 percent cobbles, and 10 percent stones; strongly effervescent; slightly alkaline (pH 7.6); gradual wavy boundary.

Bk2—46 to 60 inches; light yellowish brown (10YR 6/4) cobbly clay loam, yellowish brown (10YR 5/4) moist; weak medium and coarse subangular blocky structure; hard, friable, slightly sticky and slightly plastic; 10 percent gravel, 20 percent cobbles, and 5 percent flagstones; calcium carbonate disseminated throughout; violently effervescent; moderately alkaline (pH 8.2).

The mollic epipedon is 16 to 26 inches thick. The particle-size control section has 35 to 45 percent clay and 5 to 35 percent rock fragments. Calcium carbonate is at a depth of 23 to 31 inches.

A horizon: The hue is 7.5YR or 10YR; the value is 4 or 5 dry, 2 or 3 moist; and the chroma is 2 or 3. The texture is loam or clay loam. The reaction is neutral or slightly alkaline.

Bt horizons: The hue is 7.5YR or 10YR; the value is 3 through 6 dry, 3 through 5 moist; and the chroma is 1 through 6. The texture of the fine-earth fraction is clay loam or clay with rock fragment modifiers of cobbly or gravelly in some pedons. The reaction is neutral or slightly alkaline.

Bk horizon: The hue is 2.5Y through 10YR; the value is 5 through 7 dry, 4 through 6 moist; and the chroma is 3 through 6. The texture of the fine-earth fraction is clay loam or clay with rock modifiers in some pedons. The calcium carbonate equivalent ranges from 3 to 15 percent. The reaction is slightly alkaline or moderately alkaline.

Formation of the Soils

The characteristics of any given soil are determined by the interaction of five factors of soil formation. These are the physical and mineralogical composition of the parent material; the climate under which the soil material accumulated and weathered; the plant and animal life on and in the soil; the relief, or how the land lies; and the length of time that the forces of soil formation have acted on the soil material.

Climate and plant and animal life are the active factors of soil formation. They act on the parent material that has accumulated through the weathering of rock or that has been deposited by wind and water and slowly change it to a natural body that has genetically related horizons. The effects of plant and animal life are conditioned by relief. The kind of parent material also affects the kind of profile that is formed and in some instances may determine it almost entirely. Finally, time is needed to change the parent material into soil that has distinct horizons.

The factors of soil formation are so closely interrelated in their effects on the soil that few generalizations can be made regarding the effect of any one factor unless conditions are specified for the other four. The factors of soil formation are not equal in their effect on soil formation, nor is any one factor equal under different conditions. In some places any one factor may have a major influence on soil formation while in another place it may be of little importance. For example, in areas of sandhills that are subject to semi-arid climatic conditions, relief has little effect and parent material has a large effect on soil formation. The five main factors of soil formation and the geology of the area are discussed in the following paragraphs.

Parent Material

The soils in the survey area formed in many different kinds of parent material. The major kinds are loess, alluvium, slope alluvium, colluvium, and residuum. This material weathered from many kinds of sandstone, shale, and volcanic and igneous rocks. These different kinds of parent material affect the mineralogy, color, texture, consistence, chemical makeup, reaction, and natural fertility of the soils.

Loess.—Some of the soils on mesas in the western part of the survey area formed in silty, calcareous loess or eolian material. It is mostly of Pleistocene age, but some additional reworking and deposition have occurred in recent time. This loess layer is thin, only a few feet thick at most. It is reddish in color; it generally has hue of 5YR. It has a high content of silt and very fine sand, and generally has less than 15 percent of sand that is coarser than very fine sand. This material is presumed to have weathered from red sandstone and siltstone in northeastern Arizona and southeastern Utah, and has been deposited in the area by the prevailing winds from the southwest. On mesa tops where the loess is most prevalent, it overlies Cretaceous sandstone and shale (Haynes and others, 1972). Loess has had some influence on the soils over much of the western part of the survey area. Soils formed in this loess are in the fine-silty particle-size families, as the Granath and Wetherill series, and in fine families as the Nortez series.

Alluvium and slope alluvium.—Soils that formed in these kinds of parent material are found throughout the survey area. More soils are formed in alluvium and slope alluvium in the survey area than in any other kind of parent material. Alluvium is on flood plains, terraces, fans, and valley bottoms. Soils formed in slope alluvium are on piedmont slopes, mountain slopes, and canyon side slopes. This material is mostly of Recent or Pleistocene age. Most of the soils formed in these kinds of parent material will occur on more than one landscape position.

Soils on the floodplains and low terraces of the major river valleys formed in material ranging from moderately fine textured to moderately coarse textured and often are stratified. These soils generally overlie layers of sand, gravel, and cobble. The gravel and cobble are rounded and are mostly igneous, metamorphic or volcanic. This material weathered from geologic formations higher in the mountains and was transported a great distance by water. Some of the finer textured soil material eroded from nearby side slopes and side canyons to be deposited in the river valley. This process is still going on. The soils forming in this material have little horizonation other than mottling. Many have mollic surface layers. The differences in horizons below the surface are mostly those of stratification rather than soil development. These soils typically have an A and C or A, Bw, and C horizon sequence. Some have contrasting layers in the substrata. Soils formed in Recent alluvium in valleys are Apmay, Dalmation, Pescar, Grimes, and Howardsville series, and the Fluvaquents great group.

Most upland valleys have soils formed in alluvium or slope alluvium. This material weathered from nearby rock sources and generally has not been moved far. The material is normally very deep and medium textured to fine textured. It has very few rock fragments. The soils that formed in this material vary greatly in degree of development, depending largely on the length of time the material has been in place. In some areas, deposition of new material is taking place annually, but other areas are more stable. Some of the soils formed in alluvium in upland valleys are the Lillings, Moento, Ute, and Hesperus series.

Alluvial fans occur throughout the survey area. The material in these areas weathered from rock formations at higher elevations and then was washed down drainageways to be deposited at the mouths of the drainageways. This material may be derived from a single kind of parent rock or it may be derived from mixed sources, as is more common. In many places the fans extend out over terraces of older age, and in many places the fans blend into terraces or valley bottoms. The parent material on the fans commonly is mixed, is moderately coarse textured to fine textured, and contains varying amounts of gravel, cobble, and stones. Some of the soils formed on alluvial fans are the Quazar, Bradfield, and Dapoin series, and the Typic Cryorthents subgroup. Most of these soils have also formed on other landforms.

Alluvium and slope alluvium also occur on mesas and structural benches in the western part of the survey area, on footslopes and toeslopes of hills. These are areas where most of the slopes are nearly level to strongly sloping. The material weathered mostly from sandstone and shale, but some was derived from outwash. The parent material is medium textured to fine textured and is calcareous in most places. The soils formed in this material may be leached to a great depth. Some areas have gravel, cobble, and stones, while other areas are rock-free. Examples of soils formed in alluvium or slope alluvium on mesas or structural benches are the Adel, Behanco, Mancos, Narraguinnep, Dolores, and Scout series, and the Powderhorn family.

Some of the soils of the area formed in slope alluvium or colluvium on mountain slopes and similar landforms. This material varies in texture and content of gravel, cobble, and stone, depending upon the geologic formation from which it weathered, the steepness of the slope, and the distance the material has moved down the slope. It is moderately coarse textured to fine textured. It is calcareous in some places and noncalcareous in other places, depending upon the formation from which it

weathered, and the amount of weathering that has taken place. Some of the soils formed in slope alluvium and or colluvium on these landforms are the Chris, Clayburn, Haviland, Goldbug, Henson, Needleton, Ohwiler, Scout, and Wauquie series.

Outwash and till.—Some of the soils in the survey area formed partly in old alluvium, outwash, or till. They are on terraces, moraines, or piedmont slopes of Pleistocene age. These are stable landforms in which the parent material has been in place for centuries. The material was deposited by ancient rivers, by outwash from melting glaciers, or by the glacier itself. It typically contains a high percent of gravel, cobble, stones, and boulders, which are mostly igneous or metamorphic rocks, but also includes sedimentary and volcanic rocks in places. The soils formed in this material have well-developed argillic horizons and usually are leached of carbonates to great depths. Some soils that formed partly in this material are the Fardraw, Frisco, Fughes, Sponsor, Pinacol, and Quazar series.

Residuum and Colluvium from Sandstone and Shale.—Many of the soils of the area formed in material weathered from sandstone or shale. Some formed partly in residuum or material that remained in place as it weathered, and others formed in material that was transported only a short distance. Most of the soils have formed in material from more than one geologic formation. Many of the soils formed in material weathered from interbedded sandstone and shale and have properties of both.

The soils that formed partly in residual material derived from sandstone mostly are moderately coarse to moderately fine textured. They are stony in some places and range from shallow to very deep. Some are calcareous, and others have been leached of carbonates, or the parent material was noncalcareous. Some have developed argillic horizons while others have not. Examples of soils formed partly in residual material from sandstone are the Arabrab, Behanco, Beje, Granturk, Jemco, Storm, and Valto series. The Heisspitz soils formed in material weathered mostly from limestone.

The soils that formed in residual material weathered from shale are commonly moderately fine textured or fine textured. They have very few rock fragments. They are shallow to very deep and the parent material, where not altered by leaching, generally is calcareous. The Bodot, Bucklon, Wiggler, and Zigzag series are formed in residual material from shale.

The soils that formed partly in residual material weathered from interbedded sandstone and shale have properties of both. They are fine-loamy to fine textured and some have sandstone rock fragments. Some of these soils are the Archuleta, Fortlewis, Scotch, and Skisams series.

Colluvium and Residuum From Volcanic and Igneous Rocks.—Many of the soils formed in material weathered from volcanic and igneous rocks. Some are in residuum on these rocks, others are in material that has been moved to lower positions by water or by gravity. These parent materials have had the greatest influence on the soils in the northern part of the survey area, which includes Groundhog Mountain, Black Mesa, part of the San Miguel Mountains, part of the San Juan Mountains, and in the La Plata Mountains and Rico Mountains.

The soils formed in volcanic material are mostly medium textured and have many rock fragments of gravel, cobble, and stone. The volcanic material consists mostly of rhyolite, tuff, and similar rocks. The soils are noncalcareous and generally have not formed argillic horizons. Soils formed in slope alluvium or colluvium from this material are the Henson, Moran, Scout, Telluride, and Whitecross series.

The soils formed in materials weathered from igneous rocks are mostly medium textured and contain a variable amount of rock fragments. The igneous rock material consists mostly of granite and diorite. The soils formed from this material are noncalcareous. The soils formed in residuum on igneous rocks in the survey area

are the Dystrocrepts and the Sig series. Soils formed in slope alluvium and colluvium from this material are the Blacksnag and Peeler series. The parent materials in which many other soils were formed contain igneous material that has been mixed with material from sandstone, shale, and volcanic rocks. Some of these soils are the Frisco, Horsethief, Tuckerville, Teedown, and Sponsor series.

Geology

Alex D. Elkin, Geologist, Soil Conservation Service, assisted in the preparation of this section.

The geology of the survey area has been an important factor in producing the wide variety of parent materials. Most have had some effect on the formation of the soils, either as individual formations or as sources of mixed mineralogy. The geologic formations have been significant in controlling the degree of geologic erosion, and in turn, the landforms that have developed.

Rocks ranging in age from Precambrian to Quaternary are exposed in different parts of the survey area. They consist of crystalline igneous and metamorphic rocks of Precambrian age; the thick sequence of sedimentary rock formations that range from the Devonian into the Upper Cretaceous age; intrusive volcanic rocks of mostly Tertiary age; and a variety of unconsolidated alluvial, colluvial, glacial, and eolian deposits of Quaternary age. The older rocks occur mostly in the Needle Mountains and adjacent areas in the northeastern part of the survey area. The younger intrusive rocks occur in several parts of the area including the northernmost part of the area, on Groundhog Mountain, Black Mesa, and the La Plata and Rico Mountains (Larson and others, 1956).

The oldest rocks in the area are in the Needle Mountains, along the Animas River canyon, on Coalbank Hill, and on Spud Mountain. They are mostly granite, gneiss, schist, diorite, and quartzite, all of Precambrian age. The Dystrocryepts soil formed in material weathered from granite and overlies granite bedrock.

Sedimentary rocks crop out extensively in the survey area, and underlie large areas on mesas, canyons, and mountains. They consist of several thousand feet of alternating layers of sandstone, siltstone, shale, and limestone.

The oldest of these are the Leadville Limestone of Lower Mississippian age and the Ouray Limestone of Upper Devonian age. These formations crop out on mesas south of the Needle Mountains and in the deep canyon of the Animas River. Soils formed partly in this material are the Heisspitz and Runlett series.

Above this are the Rico, Hermosa, and Molas formations. The Rico Formation is of Pennsylvanian and lower Permian ages and consists of nonmarine red beds of sandstone, siltstone, and shale. The Hermosa formation is of Pennsylvanian age and is mostly dark gray marine shale, limestone, and sandstone and is up to 2,500 feet thick. The Molas Formation is of Pennsylvanian and is nonmarine shale, siltstone, and sandstone and is only about 125 feet thick at most. Above this is the Cutler Formation, which is of Permian age and consists of nonmarine redbeds of shale, siltstone, sandstone, and conglomerate and is up to 2,000 feet thick.

Above the Permian are rocks of Triassic age that consist of nonmarine reddish brown sandstone, siltstone, and shale of the Dolores Formation. These formations crop out extensively in the Hermosa Creek drainage and the Rico vicinity, on Missionary Ridge, and around Lemon and Vallecito Reservoirs (Steven and others, 1974). They have had major influence as a source of parent materials for the soils in these areas. Many of the soils are formed entirely in material from one or more of these formations. Some of the soils that formed mostly in redbed material derived from the Cutler, Rico, and Dolores formations are the Haviland, Needleton, Scotch, Graysill, and Weminuche series. The Needleton soils also have volcanic materials in many areas.

Rocks of the Jurassic age include the Entrada Sandstone, a light gray to white massive sandstone about 200 feet thick; the Wanakah Formation, which consists of red shale and sandstone and a thin bed of limestone; and the Morrison Formation, which is about 800 feet thick and consists mainly of sandstone with interbedded, varicolored claystone and mudstone. These formations occur on the side slopes of many of the deep canyons in the central and western part of the survey area. They have influenced soil development by contributing to the mixed mineralogy and parent materials of lower lying soils. Some of the soils on the steep canyon sides have formed in material containing a high proportion of material from these formations, and in some places overlie the bedrock at a shallow depth. The Wauquie and Dolcan series formed in parent materials containing a high proportion of material weathered from these formations. In some places, Argiustolls and Haplustalfs formed in this same material.

The Dakota Sandstone and Burrow Canyon Formations are of Lower and Upper Cretaceous age. They consist of light gray to brown sandstone with interbedded green and gray claystone in the Burrow Canyon Formation, and gray siltstone and carbonaceous shale in the Dakota Sandstone Formation. These formations occur extensively on the mesas of the western part of the survey area. The Dakota sandstone is the most prominent of the two, and is most often the caprock upon which many of the soils are formed. These formations outcrop in most of the canyons in which they occur and often form cliffs along the edges of mesas. Some of the soils formed in parent materials weathered from these formations or that overlie the sandstone are the Burnson, Fivepine, Jemco, Detra, and Beje series.

Rocks of Upper Cretaceous age occur in the northwestern part of the survey area and in the vicinity of the West Mancos and Middle Mancos Rivers. These include the Mancos Shale and a small area in the Mesa Verde Group east of Ryman Creek. The Mancos Shale is mostly dark gray marine shale up to 2,000 feet thick. This produces parent material that is fine textured and calcareous. Some of the soils formed in this material are the Narraguinnep, Bradfield, and Gladlow series. The Mesa Verde is interbedded thin sandstone and dark gray clay shale with minor carbonaceous shale and coal seams; it is about 350 feet thick.

The youngest of the consolidated rocks are the volcanic intrusive rocks. Mostly of Tertiary age, they consist of rhyolite, tuff, ash flows, and similar rocks. They occur in several parts of the survey area, usually in the higher mountain areas such as the northern part of the survey area, Groundhog Mountain, the La Plata and Rico Mountains, Black Mesa, and Engineer Mountain. These rocks frequently form the divide between major drainage systems. Volcanic rocks have had a significant influence in the formation of many of the soils in the survey area. Some are formed entirely in material weathered from these rocks, while others have formed in mixed material containing large amounts derived from volcanic sources. Some of the soils formed in volcanic material are the Henson, Moran, Telluride, and Whitecross series.

Quaternary deposits of Pleistocene to Recent age are widespread throughout the survey area. They consist of moraines, gravelly and cobbly alluvial deposits representing outwash from melting glaciers, high terraces above the river bottom, and recent alluvium along most of the river valleys. Slope alluvium occurs on mesas, mountain slopes, and canyon side slopes. Colluvium occurs on many of the steeper areas.

Loess, or eolian material, occurs in the western part of the survey area and was deposited mostly in the Wisconsin part of the Pleistocene age (Price and others, 1988). Some reworking and deposition has occurred in more recent times. A few soils are formed entirely in this loess. It has had some influence on the parent material over much of the western part of the survey area.

Climate

Climate influences the physical and chemical weathering of parent material and affects the rate of biological activity. Soil temperature and moisture are the main factors; however, such factors as wind velocity and humidity have significant influences on soil climate. Soil-forming processes generally are most active when soil temperatures are warm and moisture is adequate but not excessive. The high water table that exists in some of the soils has a very important effect on soil climate: the cold winter temperatures that keep the soil temperature near the freezing point for several months slow down the rates of biological activity and chemical weathering.

The climate of the survey area varies widely and is closely related to elevation. It ranges from warm or cool semi-arid continental along the western side of the survey area, to the cold subhumid mountain type at the higher elevations. As the elevation increases to the north and east, the climate becomes colder and more moist. The average annual temperature is about 39 degrees F. at Rico, about 35° F. at Silverton, and about 43° F. at Vallecito Dam. The average annual precipitation is about 29 inches at Rico, about 25 inches at Silverton, and about 27 inches at Vallecito Dam. These stations are at lower to middle elevations in the survey area, and located in valleys. A much wider range of precipitation actually occurs within the survey area. At the western edge of the survey area, the precipitation is about 13 to 15 inches; at the northeastern side of the area, precipitation is as high as 50 to 60 inches (Doesken and others, 1984).

Besides the total amount of precipitation, the time of year that brings precipitation and the intensity of the storms should be considered. Much of the precipitation at the higher elevations falls as snow and provides large amounts of moisture in spring months. These differences in precipitation and temperature are reflected in the degree of weathering of the parent material, the amount of leaching that takes place, the degree of development of the soils, and the kind of plant cover that develops.

Moisture moving down through the soil influences soil formation by leaching calcium carbonate and other soluble salts out of the surface layers and depositing them in lower horizons or removing them altogether from the soil. The water movement through the soil transports the finely divided clay particles from the upper layers to lower layers. Thus the lower amount of rainfall at the lower elevations is reflected in the lack of soil development in such soils as the Lillings, Bodot, and Zigzag series and the low degree of development in the Sili series. In areas with slightly higher amounts of precipitation, most soils have formed argillic horizons overlying horizons of calcium carbonate accumulation such as the Granath, Pagoda, Wetherill, and Morapos series. At still higher amounts of precipitation, carbonates have been leached from many of the soils while an argillic horizon is well formed, as seen in the Needleton, Haviland, Clayburn, Quazar, and Cowtown series. Some of the soils under conifer forests have formed albic horizons or light colored layers of maximum leaching. At the higher levels of precipitation, many of the soils lack argillic horizons, have more acidic reaction, and have lower base saturation than do the soils in lower precipitation areas. Examples of these soils are the Henson, Whitecross, Moran, and Telluride series.

Soil moisture also influences soil formation indirectly by controlling the amount and kind of vegetation and, subsequently, the amount of organic matter returned to the soil. In parts of the survey area where soil moisture is limited, plant growth also is limited and the amounts of organic matter returned to the soil are small. The Sili, Lillings, Bodot, Wetherill, and Zigzag series have low amounts of organic matter in the surface layers. In the areas of higher precipitation, many of the soils support denser stands of grasses and shrubs and have a much higher content of organic matter. Examples are the Clayburn, Quazar, Hourglass, Hesperus, and Teedown series.

Plant and Animal Life

Plants, microorganisms, earthworms, and other forms of plant and animal life in and on the soil influence soil formation. Soil temperature, soil moisture, and the physical and chemical characteristics of the soil are the main factors that control the kind of plant cover and microorganisms at any location.

In the drier parts of the survey area, soil moisture is the greatest factor controlling the growth of plants. In these areas, the soils formed under a sparse cover of grasses, shrubs, and pinyon and juniper. As the moisture increases, the vegetation becomes denser and ponderosa pine is the dominant tree. At still higher amounts of moisture, spruce, fir, and aspen are the dominant trees. Under stands of aspen, there normally are thick stands of grasses and shrubs. Under spruce-fir forests, the understory vegetation often is very thin. The amount of vegetation on the soil affects the amount of organic matter that is eventually returned to the soil.

In the poorly drained areas where the soil moisture is greatest, the soils formed under a dense stand of sedges, rushes, and water-tolerant grasses. Microbial activity occurs more uniformly during the warm season. Therefore, these soils are higher in organic matter and extend to a greater depth than the more arid soils. Examples of soils formed under wetland conditions are the Schrader and Ute series.

Soil microorganisms affect soil formation in many ways, including the breakdown of plant residue. This occurs rapidly in well drained soils if the soil temperature is favorable and soil moisture is adequate. In this survey area, summer rainfall usually occurs as light showers and the activity of soil microorganisms fluctuates greatly, reaching a maximum after each shower when the soil is moist and decreasing during the intervening drier periods.

Even though microbiologic activity occurs sporadically in some parts of the area, it is still sufficient to break down most of the plant residue returned to the soil. Therefore, in the drier parts of the area the soils have low amounts of organic matter in the top few inches of the soil, such as the Sili series. In more moist areas with denser vegetative cover, the soils have higher organic matter content that extends deeper into the soil. These are the soils with mollic surface layers such as the Granath, Detra, and Teedown series. The maximum amount of organic matter coincides with the greatest concentration of plant roots. Many soils in the survey area have developed very thick mollic surface layers.

In most of the soils that formed under good stands of coniferous trees, an O horizon is on the surface consisting of needles, leaves, bark, and other organic material in various stages of decay. These soils typically have light colored E horizons that have been leached of silicate clay, have little organic carbon, and are neutral or acidic. Examples of these soils are the Needleton, Graysill, and Frisco series.

In the alpine areas, soils typically have a good plant cover of grasses and forbs and the soil moisture is adequate most of the time, but organic matter is very slow to form because the soil temperature is low most of the year. These soils include the Henson, Whitecross, and Granturk series.

In some very poorly drained areas in which the soil is wet most of the time, microbial activity is mostly anaerobic. Under such conditions, decomposition often is incomplete and the undecomposed plant material may accumulate on the surface. In some cases it may constitute the entire soil profile, as in the Cryofibrists.

Relief

Relief modifies the effects of climate and vegetation mainly by controlling surface runoff, soil erosion, and soil drainage. The survey area has extremely varied relief, ranging from nearly level areas on river valley floors and gently sloping or strongly

sloping upland valleys and mesas, to very steep mountain slopes. Some areas on mesas and in mountain valleys are depressions.

Relief affects the amount of runoff, but other factors must also be considered. Soil texture, vegetation, depth to bedrock, and a high water table also affect surface runoff. Some soils that have a moderately fine textured surface layer, such as the Lillings series, can have medium or high runoff even though the slope is nearly level or gently sloping.

On many of the nearly level to gently sloping soils, surface drainage often is low, especially if the surface textures are medium or moderately coarse. Rainfall and runoff from adjacent, more sloping areas penetrate the soil to greater depths and thus promote greater plant growth. These soils generally have higher organic matter in the surface layers and are leached to a greater depth. Some map units in the Shawa, Moento, and Hesperus series are examples.

Relief also affects soil drainage, which in turn affects plant cover and microbial activity. Some of the soils on the valley floors such as Schrader, Ute, Pescar, Cryaquolls, and Endoaquolls have restricted subsurface drainage or a periodic high water table. This poor drainage affects the processes of soil formation. Oxidation and reduction takes place alternately in soils with periodic high water tables and thus the soils are highly mottled. Soils that are permanently wet have gleyed characteristics.

The kind and amount of vegetation on the soil also affect the amount of runoff and the amount of water that penetrates the soil. Soils that have moderately steep slopes, such as some of the Adel and Nordicol map units, commonly have low or medium runoff because the plant cover is dense. The vegetation generally adds much organic matter to the surface layer, which increases water infiltration. The vegetation also acts to break up raindrops so that water is applied more gently to the soil, which reduces runoff and erosion.

Relief affects the way some parent material is deposited. On nearly level or gently sloping valley bottoms, alluvial material is deposited by streams. It typically is stratified and has layers of sand, gravel, and finer textured soil material. In many gently sloping areas in upland valleys and river valleys, the soils have developed thick, dark colored surface layers. This can be either the result of organic matter returned to the soil from vegetative cover or a combination of soil deposition and soil formation. Examples are the Dalmatian, Apmay, and Shawa series. Soil material may be eroded from higher lying areas and deposited in more gently sloping areas or in valleys. On steep mountain slopes, stones, boulders, and soil material commonly are moved down the slope by colluvial or slope alluvial action, or by both.

No surface outlet exists in depressional areas, so water must either evaporate or percolate through the soil. These areas often are wet for long periods or are permanently wet. Soils formed in these areas have large amounts of organic material accumulating on the surface in various stages of decomposition. Some are made up mostly of such organic material, such as the Cryofibrists.

Aspect is an extremely important influence upon the development of soils in the survey area. Aspect and the steepness of slopes influence soil formation by their effect on the microclimate, and thus on the soil temperature and moisture content. Aspect affects the kind and amount of vegetation on many of the soils. In much of the area, south aspects are warmer and drier than north aspects.

On very steep slopes where runoff is rapid, erosion may occur at the same rate as the weathering of parent material. Under these conditions, genetic horizons may never form because the soil material is not in place long enough for soil-forming processes to work.

Time

Time refers to the length of time the processes of soil formation have been active. Time is needed for the other factors of soil formation to work. The amount of time needed is related to the amount of influence the other factors of soil formation have on soil development.

The soils of the survey area vary widely in age, or in the length of time the soil-forming factors have been active. The older soils, such as the Granath, Burnson, Caviness, and Goldbug soils have developed A, Bt, and C horizons; or E, Bt, and C horizons; or some similar arrangement. These soils have well developed argillic horizons and have zones of calcium carbonate accumulation, or have been leached entirely of calcium carbonate. These soils formed on old stable landforms. The younger soils generally have A and C horizons; or A, C, and R (or Cr) horizons; or A, Bw, and C horizons; or some similar sequence of horizons. The Apmay, Grimes, Umbarg, and Lillings are young soils formed in alluvium in valley positions. Zigzag and Valto are young soils formed on mountain slopes and hillslopes. These soils have little soil development. Apmay, Lillings, and Zigzag typically are calcareous throughout.

The Umbarg soils are on low terraces; they have received accumulations of soil material from higher lying areas. The Lillings soil has slow permeability and is in areas of low rainfall; therefore, the soil remains dry for long periods and soil-forming processes are very slow to form horizons. The Zigzag soils are shallow over shale because erosion removed the soil as quickly as it was formed.

Soils on flood plains where frequent deposition of material occurs may have horizons that are quite different within a single soil profile. These are stratified soils. They can be considered young soils because the differences are not due to soil-forming processes, but to the normal characteristics of the unaltered, stratified parent material. Fluvaquents is an example.

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Glossary

Aeration, soil. The exchange of air in soil with air from the atmosphere. The air in a well aerated soil is similar to that in the atmosphere; the air in a poorly aerated soil is considerably higher in carbon dioxide and lower in oxygen.

Aggregate, soil. Many fine particles held in a single mass or cluster. Natural soil aggregates, such as granules, blocks, or prisms, are called peds. Clods are aggregates produced by tillage or logging.

Alkali (sodic) soil. A soil having so high a degree of alkalinity (pH 8.5 or higher) or so high a percentage of exchangeable sodium (15 percent or more of the total exchangeable bases), or both, that plant growth is restricted.

Alluvial fan. The fanlike deposit of a stream where it issues from a gorge upon a plain or of a tributary stream near or at its junction with its main stream.

Alluvium. Material, such as sand, silt, or clay, deposited on land by streams.

Animal unit month (AUM). The amount of forage required by one mature cow of approximately 1,000 pounds weight, with or without a calf, for 1 month.

Aquic conditions. Current soil wetness characterized by saturation, reduction, and redoximorphic features.

Argillic horizon. A subsoil horizon characterized by an accumulation of illuvial clay.

Arroyo. The flat-floored channel of an ephemeral stream, commonly with very steep to vertical banks cut in alluvium.

Aspect. The direction in which a slope faces.

Association, soil. A group of soils or miscellaneous areas geographically associated in a characteristic repeating pattern and defined and delineated as a single map unit.

Available water capacity (available moisture capacity). The capacity of soils to hold water available for use by most plants. It is commonly defined as the difference between the amount of soil water at field moisture capacity and the amount at wilting point. It is commonly expressed as inches of water per inch of soil. The capacity, in inches, in a 60-inch profile or to a limiting layer is expressed as:

Very low	0 to 3
Low	3 to 6
Moderate	6 to 9
High	9 to 12
Very high	more than 12

Backslope. The position that forms the steepest and generally linear, middle portion of a hillslope. In profile, backslopes are commonly bounded by a convex shoulder above and a concave footslope below.

Badland. Steep or very steep, commonly nonstony, barren land dissected by many intermittent drainage channels. Badland is most common in semiarid and arid regions where streams are entrenched in soft geologic material. Local relief generally ranges from 25 to 500 feet. Runoff potential is very high, and geologic erosion is active.

Basal area. The area of a cross section of a tree, generally referring to the section at breast height and measured outside the bark. It is a measure of stand density, commonly expressed in square feet.

Base saturation. The degree to which material having cation-exchange properties is saturated with exchangeable bases (sum of Ca, Mg, Na, and K), expressed as a percentage of the total cation-exchange capacity.

Base slope. A geomorphic component of hills consisting of the concave to linear (perpendicular to the contour) slope that, regardless of the lateral shape, forms an apron or wedge at the bottom of a hillside dominated by colluvium and slope-wash sediments (for example, slope alluvium).

Bedrock. The solid rock that underlies the soil and other unconsolidated material or that is exposed at the surface.

Bisequum. Two sequences of soil horizons, each of which consists of an illuvial horizon and the overlying eluvial horizons.

Bottom land. The normal flood plain of a stream, subject to flooding.

Boulders. Rock fragments larger than 2 feet (60 centimeters) in diameter.

Breaks. The steep and very steep broken land at the border of an upland summit that is dissected by ravines.

Breast height. An average height of 4.5 feet above the ground surface; the point on a tree where diameter measurements are ordinarily taken.

Brush management. Use of mechanical, chemical, or biological methods to make conditions favorable for reseeding or to reduce or eliminate competition from woody vegetation and thus allow understory grasses and forbs to recover. Brush management increases forage production and thus reduces the hazard of erosion. It can improve the habitat for some species of wildlife.

Butte. An isolated small mountain or hill with steep or precipitous sides and a top variously flat, rounded, or pointed that may be a residual mass isolated by erosion or an exposed volcanic neck.

Calcareous soil. A soil containing enough calcium carbonate (commonly combined with magnesium carbonate) to effervesce visibly when treated with cold, dilute hydrochloric acid.

Canopy. The leafy crown of trees or shrubs. (See Crown.)

Canyon. A long, deep, narrow, very steep sided valley with high, precipitous walls in an area of high local relief.

Capillary water. Water held as a film around soil particles and in tiny spaces between particles. Surface tension is the adhesive force that holds capillary water in the soil.

Catena. A sequence, or "chain," of soils on a landscape that formed in similar kinds of parent material but have different characteristics as a result of differences in relief and drainage.

Cation. An ion carrying a positive charge of electricity. The common soil cations are calcium, potassium, magnesium, sodium, and hydrogen.

Cation-exchange capacity. The total amount of exchangeable cations that can be held by the soil, expressed in terms of milliequivalents per 100 grams of soil at neutrality (pH 7.0) or at some other stated pH value. The term, as applied to soils, is synonymous with base-exchange capacity but is more precise in meaning.

Channery soil material. Soil material that has, by volume, 15 to 35 percent thin, flat fragments of sandstone, shale, slate, limestone, or schist as much as 6 inches (15 centimeters) along the longest axis. A single piece is called a chanter.

Chemical treatment. Control of unwanted vegetation through the use of chemicals.

Cirque. A semicircular, concave, bowl-like area that has steep faces primarily resulting from glacial ice and snow abrasion.

- Clay.** As a soil separate, the mineral soil particles less than 0.002 millimeter in diameter. As a soil textural class, soil material that is 40 percent or more clay, less than 45 percent sand, and less than 40 percent silt.
- Clay depletions.** Low-chroma zones having a low content of iron, manganese, and clay because of the chemical reduction of iron and manganese and the removal of iron, manganese, and clay. A type of redoximorphic depletion.
- Clay film.** A thin coating of oriented clay on the surface of a soil aggregate or lining pores or root channels. Synonyms: clay coating, clay skin.
- Claypan.** A slowly permeable soil horizon that contains much more clay than the horizons above it. A claypan is commonly hard when dry and plastic or stiff when wet.
- Climax plant community.** The stabilized plant community on a particular site. The plant cover reproduces itself and does not change so long as the environment remains the same.
- Coarse textured soil.** Sand or loamy sand.
- Cobble (or cobblestone).** A rounded or partly rounded fragment of rock 3 to 10 inches (7.6 to 25 centimeters) in diameter.
- Cobbly soil material.** Material that has 15 to 35 percent, by volume, rounded or partially rounded rock fragments 3 to 10 inches (7.6 to 25 centimeters) in diameter. Very cobbly soil material has 35 to 60 percent of these rock fragments, and extremely cobbly soil material has more than 60 percent.
- COLE (coefficient of linear extensibility).** See Linear extensibility.
- Colluvium.** Soil material or rock fragments, or both, moved by creep, slide, or local wash and deposited at the base of steep slopes.
- Complex slope.** Irregular or variable slope. Planning or establishing terraces, diversions, and other water-control structures on a complex slope is difficult.
- Complex, soil.** A map unit of two or more kinds of soil or miscellaneous areas in such an intricate pattern or so small in area that it is not practical to map them separately at the selected scale of mapping. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas.
- Concretions.** Cemented bodies with crude internal symmetry organized around a point, a line, or a plane. They typically take the form of concentric layers visible to the naked eye. Calcium carbonate, iron oxide, and manganese oxide are common compounds making up concretions. If formed in place, concretions of iron oxide or manganese oxide are generally considered a type of redoximorphic concentration.
- Conglomerate.** A coarse grained, clastic rock composed of rounded or subangular rock fragments more than 2 millimeters in diameter. It commonly has a matrix of sand and finer textured material. Conglomerate is the consolidated equivalent of gravel.
- Consistence, soil.** Refers to the degree of cohesion and adhesion of soil material and its resistance to deformation when ruptured. Consistence includes resistance of soil material to rupture and to penetration; plasticity, toughness, and stickiness of puddled soil material; and the manner in which the soil material behaves when subject to compression. Terms describing consistence are defined in the "Soil Survey Manual."
- Control section.** The part of the soil on which classification is based. The thickness varies among different kinds of soil, but for many it is that part of the soil profile between depths of 10 inches and 40 or 80 inches.
- Corrosion.** Soil-induced electrochemical or chemical action that dissolves or weakens concrete or uncoated steel.
- Crown.** The upper part of a tree or shrub, including the living branches and their foliage.

Cuesta. A hill or ridge that has a gentle slope on one side and a steep slope on the other; specifically, an asymmetric, homoclinal ridge capped by resistant rock layers of slight or moderate dip.

Culmination of the mean annual increment (CMAI). The average annual increase per acre in the volume of a stand. Computed by dividing the total volume of the stand by its age. As the stand increases in age, the mean annual increment continues to increase until mortality begins to reduce the rate of increase. The point where the stand reaches its maximum annual rate of growth is called the culmination of the mean annual increment.

Cutbanks cave (in tables). The walls of excavations tend to cave in or slough.

Decreasers. The most heavily grazed climax range plants. Because they are the most palatable, they are the first to be destroyed by overgrazing.

Deferred grazing. Postponing grazing or resting grazing land for a prescribed period.

Depth, soil. Generally, the thickness of the soil over bedrock. Very deep soils are more than 60 inches deep over bedrock; deep soils, 40 to 60 inches; moderately deep, 20 to 40 inches; shallow, 10 to 20 inches; and very shallow, less than 10 inches.

Depth to rock (in tables). Bedrock is too near the surface for the specified use.

Dip slope. A slope of the land surface, roughly determined by and approximately conforming to the dip of the underlying bedrock.

Drainage class (natural). Refers to the frequency and duration of wet periods under conditions similar to those under which the soil formed. Alterations of the water regime by human activities, either through drainage or irrigation, are not a consideration unless they have significantly changed the morphology of the soil. Seven classes of natural soil drainage are recognized—*excessively drained*, *somewhat excessively drained*, *well drained*, *moderately well drained*, *somewhat poorly drained*, *poorly drained*, and *very poorly drained*. These classes are defined in the “Soil Survey Manual.”

Drainage, surface. Runoff, or surface flow of water, from an area.

Draw. A small stream valley that generally is more open and has broader bottom land than a ravine or gulch.

Duff. A generally firm organic layer on the surface of mineral soils. It consists of fallen plant material that is in the process of decomposition and includes everything from the litter on the surface to underlying pure humus.

Ecological site. An area where climate, soil, and relief are sufficiently uniform to produce a distinct natural plant community. An ecological site is the product of all the environmental factors responsible for its development. It is typified by an association of species that differ from those on other ecological sites in kind and/or proportion of species or in total production.

Excess salts (in tables). Excess water-soluble salts in the soil that restrict the growth of most plants.

Eluviation. The movement of material in true solution or colloidal suspension from one place to another within the soil. Soil horizons that have lost material through eluviation are eluvial; those that have received material are illuvial.

Endosaturation. A type of saturation of the soil in which all horizons between the upper boundary of saturation and a depth of 2 meters are saturated.

Eolian soil material. Earthy parent material accumulated through wind action; commonly refers to sandy material in dunes or to loess in blankets on the surface.

Ephemeral stream. A stream, or reach of a stream, that flows only in direct response to precipitation. It receives no long-continued supply from melting snow or other source, and its channel is above the water table at all times.

Episaturation. A type of saturation indicating a perched water table in a soil in which saturated layers are underlain by one or more unsaturated layers within 2 meters of the surface.

Erosion. The wearing away of the land surface by water, wind, ice, or other geologic agents and by such processes as gravitational creep.

Erosion (geologic). Erosion caused by geologic processes acting over long geologic periods and resulting in the wearing away of mountains and the building up of such landscape features as flood plains and coastal plains. Synonym: natural erosion.

Erosion (accelerated). Erosion much more rapid than geologic erosion, mainly as a result of human or animal activities or of a catastrophe in nature, such as a fire, that exposes the surface.

Escarpment. A relatively continuous and steep slope or cliff breaking the general continuity of more gently sloping land surfaces and resulting from erosion or faulting. Synonym: scarp.

Extrusive rock. Igneous rock derived from deep-seated molten matter (magma) emplaced on the earth's surface.

Fan terrace. A relict alluvial fan, no longer a site of active deposition, incised by younger and lower alluvial surfaces.

Fertility, soil. The quality that enables a soil to provide plant nutrients, in adequate amounts and in proper balance, for the growth of specified plants when light, moisture, temperature, tilth, and other growth factors are favorable.

Fibric soil material (peat). The least decomposed of all organic soil material. Peat contains a large amount of well preserved fiber that is readily identifiable according to botanical origin. Peat has the lowest bulk density and the highest water content at saturation of all organic soil material.

Field moisture capacity. The moisture content of a soil, expressed as a percentage of the oven-dry weight, after the gravitational, or free, water has drained away; the field moisture content 2 or 3 days after a soaking rain; also called *normal field capacity*, *normal moisture capacity*, or *capillary capacity*.

Fill slope. A sloping surface consisting of excavated soil material from a road cut. It commonly is on the downhill side of the road.

Fine textured soil. Sandy clay, silty clay, or clay.

First bottom. The normal flood plain of a stream, subject to frequent or occasional flooding.

Flaggy soil material. Material that has, by volume, 15 to 35 percent flagstones. Very flaggy soil material has 35 to 60 percent flagstones, and extremely flaggy soil material has more than 60 percent flagstones.

Flagstone. A thin fragment of sandstone, limestone, slate, shale, or (rarely) schist 6 to 15 inches (15 to 38 centimeters) long.

Flood plain. A nearly level alluvial plain that borders a stream and is subject to flooding unless protected artificially.

Foothill. A steeply sloping upland that has relief of as much as 1,000 feet (300 meters) and fringes a mountain range or high-plateau escarpment.

Footslope. The position that forms the inner, gently inclined surface at the base of a hillslope. In profile, footslopes are commonly concave. A footslope is a transition zone between upslope sites of erosion and transport (shoulders and backslopes) and downslope sites of deposition (toeslopes).

Forb. Any herbaceous plant not a grass or a sedge.

Forest cover. All trees and other woody plants (underbrush) covering the ground in a forest.

Forest type. A stand of trees similar in composition and development because of given physical and biological factors by which it may be differentiated from other stands.

Frost action (in tables). Freezing and thawing of soil moisture. Frost action can damage roads, buildings and other structures, and plant roots.

Genesis, soil. The mode of origin of the soil. Refers especially to the processes or soil-forming factors responsible for the formation of the solum, or true soil, from the unconsolidated parent material.

Glacial drift. Pulverized and other rock material transported by glacial ice and then deposited. Also, the sorted and unsorted material deposited by streams flowing from glaciers.

Glacial outwash. Gravel, sand, and silt, commonly stratified, deposited by glacial meltwater.

Glacial till. Unsorted, nonstratified glacial drift consisting of clay, silt, sand, and boulders transported and deposited by glacial ice.

Gleyed soil. Soil that formed under poor drainage, resulting in the reduction of iron and other elements in the profile and in gray colors.

Gravel. Rounded or angular fragments of rock as much as 3 inches (2 millimeters to 7.6 centimeters) in diameter. An individual piece is a pebble.

Gravelly soil material. Material that has 15 to 35 percent, by volume, rounded or angular rock fragments, not prominently flattened, as much as 3 inches (7.6 centimeters) in diameter.

Ground water. Water filling all the unblocked pores of the material below the water table.

Gully. A miniature valley with steep sides cut by running water and through which water ordinarily runs only after rainfall. The distinction between a gully and a rill is one of depth. A gully generally is an obstacle to farm machinery and is too deep to be obliterated by ordinary tillage; a rill is of lesser depth and can be smoothed over by ordinary tillage.

Hard bedrock. Bedrock that cannot be excavated except by blasting or by the use of special equipment that is not commonly used in construction.

Hardpan. A hardened or cemented soil horizon, or layer. The soil material is sandy, loamy, or clayey and is cemented by iron oxide, silica, calcium carbonate, or other substance.

Head slope. A geomorphic component of hills consisting of a laterally concave area of a hillside, especially at the head of a drainageway. The overland waterflow is converging.

Hemic soil material (mucky peat). Organic soil material intermediate in degree of decomposition between the less decomposed fibric material and the more decomposed sapric material.

Hill. A natural elevation of the land surface, rising as much as 1,000 feet above surrounding lowlands, commonly of limited summit area and having a well defined outline; hillsides generally have slopes of more than 15 percent. The distinction between a hill and a mountain is arbitrary and is dependent on local usage.

Horizon, soil. A layer of soil, approximately parallel to the surface, having distinct characteristics produced by soil-forming processes. In the identification of soil horizons, an uppercase letter represents the major horizons. Numbers or lowercase letters that follow represent subdivisions of the major horizons. An explanation of the subdivisions is given in the "Soil Survey Manual." The major horizons of mineral soil are as follows:

O horizon.—An organic layer of fresh and decaying plant residue.

A horizon.—The mineral horizon at or near the surface in which an accumulation of humified organic matter is mixed with the mineral material. Also, a plowed surface horizon, most of which was originally part of a B horizon.

E horizon.—The mineral horizon in which the main feature is loss of silicate clay, iron, aluminum, or some combination of these.

B horizon.—The mineral horizon below an A horizon. The B horizon is in part a layer of transition from the overlying A to the underlying C horizon. The B horizon also has distinctive characteristics, such as (1) accumulation of clay, sesquioxides, humus, or a combination of these; (2) prismatic or blocky structure; (3) redder or browner colors than those in the A horizon; or (4) a combination of these.

C horizon.—The mineral horizon or layer, excluding indurated bedrock, that is little affected by soil-forming processes and does not have the properties typical of the overlying soil material. The material of a C horizon may be either like or unlike that in which the solum formed. If the material is known to differ from that in the solum, an Arabic numeral, commonly a 2, precedes the letter C.

Cr horizon.—Soft, consolidated bedrock beneath the soil.

R layer.—Consolidated bedrock beneath the soil. The bedrock commonly underlies a C horizon, but it can be directly below an A or a B horizon.

Humus. The well decomposed, more or less stable part of the organic matter in mineral soils.

Hydrologic soil groups. Refers to soils grouped according to their runoff potential.

The soil properties that influence this potential are those that affect the minimum rate of water infiltration on a bare soil during periods after prolonged wetting when the soil is not frozen. These properties are depth to a seasonal high water table, the infiltration rate and permeability after prolonged wetting, and depth to a very slowly permeable layer. The slope and the kind of plant cover are not considered but are separate factors in predicting runoff.

Igneous rock. Rock formed by solidification from a molten or partially molten state.

Major varieties include plutonic and volcanic rock. Examples are andesite, basalt, and granite.

Illuviation. The movement of soil material from one horizon to another in the soil profile. Generally, material is removed from an upper horizon and deposited in a lower horizon.

Impervious soil. A soil through which water, air, or roots penetrate slowly or not at all. No soil is absolutely impervious to air and water all the time.

Increasers. Species in the climax vegetation that increase in amount as the more desirable plants are reduced by close grazing. Increasers commonly are the shorter plants and the less palatable to livestock.

Infiltration. The downward entry of water into the immediate surface of soil or other material, as contrasted with percolation, which is movement of water through soil layers or material.

Infiltration capacity. The maximum rate at which water can infiltrate into a soil under a given set of conditions.

Infiltration rate. The rate at which water penetrates the surface of the soil at any given instant, usually expressed in inches per hour. The rate can be limited by the infiltration capacity of the soil or the rate at which water is applied at the surface.

Intake rate. The average rate of water entering the soil under irrigation. Most soils have a fast initial rate; the rate decreases with application time. Therefore, intake rate for design purposes is not a constant but is a variable depending on the net irrigation application. The rate of water intake, in inches per hour, is expressed as follows:

Less than 0.2	.....	very low
0.2 to 0.4	.....	low
0.4 to 0.75	.....	moderately low
0.75 to 1.25	.....	moderate
1.25 to 1.75	.....	moderately high

1.75 to 2.5 high
 More than 2.5 very high

Interfluve. An elevated area between two drainageways that sheds water to those drainageways.

Intermittent stream. A stream, or reach of a stream, that flows for prolonged periods only when it receives ground-water discharge or long, continued contributions from melting snow or other surface and shallow subsurface sources.

Invaders. On range, plants that encroach into an area and grow after the climax vegetation has been reduced by grazing. Generally, plants invade following disturbance of the surface.

Iron depletions. Low-chroma zones having a low content of iron and manganese oxide because of chemical reduction and removal, but having a clay content similar to that of the adjacent matrix. A type of redoximorphic depletion.

Irrigation. Application of water to soils to assist in production of crops. Methods of irrigation are:

Controlled flooding.—Water is released at intervals from closely spaced field ditches and distributed uniformly over the field.

Corrugation.—Water is applied to small, closely spaced furrows or ditches in fields of close-growing crops or in orchards so that it flows in only one direction.

Sprinkler.—Water is sprayed over the soil surface through pipes or nozzles from a pressure system.

Wild flooding.—Water, released at high points, is allowed to flow onto an area without controlled distribution.

Knoll. A small, low, rounded hill rising above adjacent landforms.

K_{sat} . Saturated hydraulic conductivity. (See Permeability.)

Landslide. The rapid downhill movement of a mass of soil and loose rock, generally when wet or saturated. The speed and distance of movement, as well as the amount of soil and rock material, vary greatly.

Large stones (in tables). Rock fragments 3 inches (7.6 centimeters) or more across. Large stones adversely affect the specified use of the soil.

Leaching. The removal of soluble material from soil or other material by percolating water.

Linear extensibility. Refers to the change in length of an unconfined clod as moisture content is decreased from a moist to a dry state. Linear extensibility is used to determine the shrink-swell potential of soils. It is an expression of the volume change between the water content of the the clod at $\frac{1}{3}$ - or $\frac{1}{10}$ -bar tension (33kPa or 10kPa tension) and oven dryness. Volume change is influenced by the amount and type of clay minerals in the soil. The volume change is the percent change for the whole soil. If it is expressed as a fraction, the resulting value is COLE, coefficient of linear extensibility.

Liquid limit. The moisture content at which the soil passes from a plastic to a liquid state.

Loam. Soil material that is 7 to 27 percent clay particles, 28 to 50 percent silt particles, and less than 52 percent sand particles.

Loess. Fine grained material, dominantly of silt-sized particles, deposited by wind.

Low strength. The soil is not strong enough to support loads.

Marl. An earthy, unconsolidated deposit consisting chiefly of calcium carbonate mixed with clay in approximately equal amounts.

Masses. Concentrations of substances in the soil matrix that do not have a clearly defined boundary with the surrounding soil material and cannot be removed as a discrete unit. Common compounds making up masses are calcium carbonate, gypsum or other soluble salts, iron oxide, and manganese oxide. Masses consisting of iron oxide or manganese oxide generally are considered a type of redoximorphic concentration.

Mechanical treatment. Use of mechanical equipment for seeding, brush management, and other management practices.

Medium textured soil. Very fine sandy loam, loam, silt loam, or silt.

Mesa. A broad, nearly flat topped and commonly isolated upland mass characterized by summit widths that are more than the heights of bounding erosional scarps.

Metamorphic rock. Rock of any origin altered in mineralogical composition, chemical composition, or structure by heat, pressure, and movement. Nearly all such rocks are crystalline.

Mineral soil. Soil that is mainly mineral material and low in organic material. Its bulk density is more than that of organic soil.

Miscellaneous area. An area that has little or no natural soil and supports little or no vegetation.

Moderately coarse textured soil. Coarse sandy loam, sandy loam, or fine sandy loam.

Moderately fine textured soil. Clay loam, sandy clay loam, or silty clay loam.

Mollic epipedon. A thick, dark, humus-rich surface horizon (or horizons) that has high base saturation and pedogenic soil structure. It may include the upper part of the subsoil.

Moraine. An accumulation of earth, stones, and other debris deposited by a glacier. Some types are terminal, lateral, medial, and ground.

Morphology, soil. The physical makeup of the soil, including the texture, structure, porosity, consistence, color, and other physical, mineral, and biological properties of the various horizons, and the thickness and arrangement of those horizons in the soil profile.

Mottling, soil. Irregular spots of different colors that vary in number and size.

Descriptive terms are as follows: abundance—*few*, *common*, and *many*; size—*fine*, *medium*, and *coarse*; and contrast—*faint*, *distinct*, and *prominent*. The size measurements are of the diameter along the greatest dimension. *Fine* indicates less than 5 millimeters (about 0.2 inch); *medium*, from 5 to 15 millimeters (about 0.2 to 0.6 inch); and *coarse*, more than 15 millimeters (about 0.6 inch).

Mountain. A natural elevation of the land surface, rising more than 1,000 feet above surrounding lowlands, commonly of restricted summit area (relative to a plateau) and generally having steep sides. A mountain can occur as a single, isolated mass or in a group forming a chain or range.

Muck. Dark, finely divided, well decomposed organic soil material. (See Sapric soil material.)

Mudstone. Sedimentary rock formed by induration of silt and clay in approximately equal amounts.

Munsell notation. A designation of color by degrees of three simple variables—hue, value, and chroma. For example, a notation of 10YR 6/4 is a color with hue of 10YR, value of 6, and chroma of 4.

Natric horizon. A special kind of argillic horizon that contains enough exchangeable sodium to have an adverse effect on the physical condition of the subsoil.

Neutral soil. A soil having a pH value of 6.6 to 7.3. (See Reaction, soil.)

Nodules. Cemented bodies lacking visible internal structure. Calcium carbonate, iron oxide, and manganese oxide are common compounds making up nodules. If formed in place, nodules of iron oxide or manganese oxide are considered types of redoximorphic concentrations.

Nose slope. A geomorphic component of hills consisting of the projecting end (laterally convex area) of a hillside. The overland waterflow is predominantly divergent.

Nutrient, plant. Any element taken in by a plant essential to its growth. Plant nutrients are mainly nitrogen, phosphorus, potassium, calcium, magnesium,

sulfur, iron, manganese, copper, boron, and zinc obtained from the soil and carbon, hydrogen, and oxygen obtained from the air and water.

Organic matter. Plant and animal residue in the soil in various stages of decomposition. The content of organic matter in the surface layer is described as follows:

Very low	less than 0.5 percent
Low	0.5 to 1.0 percent
Moderately low	1.0 to 2.0 percent
Moderate	2.0 to 4.0 percent
High	4.0 to 8.0 percent
Very high	more than 8.0 percent

Parent material. The unconsolidated organic and mineral material in which soil forms.

Peat. Unconsolidated material, largely undecomposed organic matter, that has accumulated under excess moisture. (See Fibric soil material.)

Ped. An individual natural soil aggregate, such as a granule, a prism, or a block.

Pedisediment. A thin layer of alluvial material that mantles an erosion surface and has been transported to its present position from higher lying areas of the erosion surface.

Pedon. The smallest volume that can be called "a soil." A pedon is three dimensional and large enough to permit study of all horizons. Its area ranges from about 10 to 100 square feet (1 square meter to 10 square meters), depending on the variability of the soil.

Percolation. The movement of water through the soil.

Percs slowly (in tables). The slow movement of water through the soil adversely affects the specified use.

Permafrost. Layers of soil, or even bedrock, occurring in arctic or subarctic regions, in which a temperature below freezing has existed continuously for a long time.

Permeability. The quality of the soil that enables water or air to move downward through the profile. The rate at which a saturated soil transmits water is accepted as a measure of this quality. In soil physics, the rate is referred to as "saturated hydraulic conductivity," which is defined in the "Soil Survey Manual." In line with conventional usage in the engineering profession and with traditional usage in published soil surveys, this rate of flow continues to be expressed as "permeability." Terms describing permeability, measured in inches per hour, are as follows:

Extremely slow	0.0 to 0.01 inch
Very slow	0.01 to 0.06 inch
Slow	0.06 to 0.2 inch
Moderately slow	0.2 to 0.6 inch
Moderate	0.6 inch to 2.0 inches
Moderately rapid	2.0 to 6.0 inches
Rapid	6.0 to 20 inches
Very rapid	more than 20 inches

Phase, soil. A subdivision of a soil series based on features that affect its use and management, such as slope, stoniness, and flooding.

pH value. A numerical designation of acidity and alkalinity in soil. (See Reaction, soil.)

Piping (in tables). Formation of subsurface tunnels or pipelike cavities by water moving through the soil.

Plasticity index. The numerical difference between the liquid limit and the plastic limit; the range of moisture content within which the soil remains plastic.

Plastic limit. The moisture content at which a soil changes from semisolid to plastic.

Plateau. An extensive upland mass with relatively flat summit area that is considerably elevated (more than 100 meters) above adjacent lowlands and separated from them on one or more sides by escarpments.

Ponding. Standing water on soils in closed depressions. Unless the soils are artificially drained, the water can be removed only by percolation or evapotranspiration.

Poorly graded. Refers to a coarse grained soil or soil material consisting mainly of particles of nearly the same size. Because there is little difference in size of the particles, density can be increased only slightly by compaction.

Potential native plant community. See Climax plant community.

Potential rooting depth (effective rooting depth). Depth to which roots could penetrate if the content of moisture in the soil were adequate. The soil has no properties restricting the penetration of roots to this depth.

Prescribed burning. Deliberately burning an area for specific management purposes, under the appropriate conditions of weather and soil moisture and at the proper time of day.

Productivity, soil. The capability of a soil for producing a specified plant or sequence of plants under specific management.

Profile, soil. A vertical section of the soil extending through all its horizons and into the parent material.

Proper grazing use. Grazing at an intensity that maintains enough cover to protect the soil and maintain or improve the quantity and quality of the desirable vegetation. This practice increases the vigor and reproduction capacity of the key plants and promotes the accumulation of litter and mulch necessary to conserve soil and water.

Rangeland. Land on which the potential natural vegetation is predominantly grasses, grasslike plants, forbs, or shrubs suitable for grazing or browsing. It includes natural grasslands, savannas, many wetlands, some deserts, tundras, and areas that support certain forb and shrub communities.

Reaction, soil. A measure of acidity or alkalinity of a soil, expressed in pH values. A soil that tests to pH 7.0 is described as precisely neutral in reaction because it is neither acid nor alkaline. The degrees of acidity or alkalinity, expressed as pH values, are:

Ultra acid	less than 3.5
Extremely acid	3.5 to 4.4
Very strongly acid	4.5 to 5.0
Strongly acid	5.1 to 5.5
Moderately acid	5.6 to 6.0
Slightly acid	6.1 to 6.5
Neutral	6.6 to 7.3
Slightly alkaline	7.4 to 7.8
Moderately alkaline	7.9 to 8.4
Strongly alkaline	8.5 to 9.0
Very strongly alkaline	9.1 and higher

Red beds. Sedimentary strata that are mainly red and are made up largely of sandstone and shale.

Redoximorphic concentrations. Nodules, concretions, soft masses, pore linings, and other features resulting from the accumulation of iron or manganese oxide. An indication of chemical reduction and oxidation resulting from saturation.

Redoximorphic depletions. Low-chroma zones from which iron and manganese oxide or a combination of iron and manganese oxide and clay has been removed.

These zones are indications of the chemical reduction of iron resulting from saturation.

Redoximorphic features. Redoximorphic concentrations, redoximorphic depletions, reduced matrices, a positive reaction to alpha,alpha-dipyridyl, and other features indicating the chemical reduction and oxidation of iron and manganese compounds resulting from saturation.

Reduced matrix. A soil matrix that has low chroma in situ because of chemically reduced iron (Fe II). The chemical reduction results from nearly continuous wetness. The matrix undergoes a change in hue or chroma within 30 minutes after exposure to air as the iron is oxidized (Fe III). A type of redoximorphic feature.

Regolith. The unconsolidated mantle of weathered rock and soil material on the earth's surface; the loose earth material above the solid rock.

Relief. The elevations or inequalities of a land surface, considered collectively.

Residuum (residual soil material). Unconsolidated, weathered or partly weathered mineral material that accumulated as consolidated rock disintegrated in place.

Rill. A steep-sided channel resulting from accelerated erosion. A rill generally is a few inches deep and not wide enough to be an obstacle to farm machinery.

Road cut. A sloping surface produced by mechanical means during road construction. It is commonly on the uphill side of the road.

Rock fragments. Rock or mineral fragments having a diameter of 2 millimeters or more; for example, pebbles, cobbles, stones, and boulders.

Root zone. The part of the soil that can be penetrated by plant roots.

Runoff. The precipitation discharged into stream channels from an area. The water that flows off the surface of the land without sinking into the soil is called surface runoff. Water that enters the soil before reaching surface streams is called ground-water runoff or seepage flow from ground water.

Saline soil. A soil containing soluble salts in an amount that impairs growth of plants. A saline soil does not contain excess exchangeable sodium.

Sand. As a soil separate, individual rock or mineral fragments from 0.05 millimeter to 2.0 millimeters in diameter. Most sand grains consist of quartz. As a soil textural class, a soil that is 85 percent or more sand and not more than 10 percent clay.

Sandstone. Sedimentary rock containing dominantly sand-sized particles.

Sapric soil material (muck). The most highly decomposed of all organic soil material. Muck has the least amount of plant fiber, the highest bulk density, and the lowest water content at saturation of all organic soil material.

Saturation. Wetness characterized by zero or positive pressure of the soil water. Under conditions of saturation, the water will flow from the soil matrix into an unlined auger hole.

Scarification. The act of abrading, scratching, loosening, crushing, or modifying the surface to increase water absorption or to provide a more tillable soil.

Second bottom. The first terrace above the normal flood plain (or first bottom) of a river.

Sedimentary rock. Rock made up of particles deposited from suspension in water. The chief kinds of sedimentary rock are conglomerate, formed from gravel; sandstone, formed from sand; shale, formed from clay; and limestone, formed from soft masses of calcium carbonate. There are many intermediate types. Some wind-deposited sand is consolidated into sandstone.

Seepage (in tables). The movement of water through the soil. Seepage adversely affects the specified use.

Sequum. A sequence consisting of an illuvial horizon and the overlying eluvial horizon. (See Eluviation.)

Series, soil. A group of soils that have profiles that are almost alike, except for differences in texture of the surface layer. All the soils of a series have horizons that are similar in composition, thickness, and arrangement.

Shale. Sedimentary rock formed by the hardening of a clay deposit.

Sheet erosion. The removal of a fairly uniform layer of soil material from the land surface by the action of rainfall and surface runoff.

Shoulder. The position that forms the uppermost inclined surface near the top of a hillslope. It is a transition from backslope to summit. The surface is dominantly convex in profile and erosional in origin.

Shrink-swell (in tables). The shrinking of soil when dry and the swelling when wet. Shrinking and swelling can damage roads, dams, building foundations, and other structures. It can also damage plant roots.

Side slope. A geomorphic component of hills consisting of a laterally planar area of a hillside. The overland waterflow is predominantly parallel.

Silica. A combination of silicon and oxygen. The mineral form is called quartz.

Silt. As a soil separate, individual mineral particles that range in diameter from the upper limit of clay (0.002 millimeter) to the lower limit of very fine sand (0.05 millimeter). As a soil textural class, soil that is 80 percent or more silt and less than 12 percent clay.

Siltstone. Sedimentary rock made up of dominantly silt-sized particles.

Similar soils. Soils that share limits of diagnostic criteria, behave and perform in a similar manner, and have similar conservation needs or management requirements for the major land uses in the survey area.

Site index. A designation of the quality of a forest site based on the height of the dominant stand at an arbitrarily chosen age. For example, if the average height attained by dominant and codominant trees in a fully stocked stand at the age of 50 years is 75 feet, the site index is 75.

Slickensides. Polished and grooved surfaces produced by one mass sliding past another. In soils, slickensides may occur at the bases of slip surfaces on the steeper slopes; on faces of blocks, prisms, and columns; and in swelling clayey soils, where there is marked change in moisture content.

Slope. The inclination of the land surface from the horizontal. Percentage of slope is the vertical distance divided by horizontal distance, then multiplied by 100. Thus, a slope of 20 percent is a drop of 20 feet in 100 feet of horizontal distance. In this survey, classes for simple slopes are as follows:

Nearly level	0 to 1 percent
Gently sloping	1 to 5 percent
Moderately sloping	5 to 15 percent
Moderately steep	15 to 30 percent
Steep	30 to 60 percent
Very steep	60 percent and higher

Slope (in tables). Slope is great enough that special practices are required to ensure satisfactory performance of the soil for a specific use.

Slow refill (in tables). The slow filling of ponds, resulting from restricted permeability in the soil.

Sodic (alkali) soil. A soil having so high a degree of alkalinity (pH 8.5 or higher) or so high a percentage of exchangeable sodium (15 percent or more of the total exchangeable bases), or both, that plant growth is restricted.

Sodium adsorption ratio (SAR). A measure of the amount of sodium (Na) relative to calcium (Ca) and magnesium (Mg) in the water extract from saturated soil paste. It is the ratio of the Na concentration divided by the square root of one-half of the Ca + Mg concentration.

Soft bedrock. Bedrock that can be excavated with trenching machines, backhoes, small rippers, and other equipment commonly used in construction.

Soil. A natural, three-dimensional body at the earth's surface. It is capable of supporting plants and has properties resulting from the integrated effect of climate and living matter acting on earthy parent material, as conditioned by relief over periods of time.

Soil separates. Mineral particles less than 2 millimeters in equivalent diameter and ranging between specified size limits. The names and sizes, in millimeters, of separates recognized in the United States are as follows:

Very coarse sand	2.0 to 1.0
Coarse sand	1.0 to 0.5
Medium sand	0.5 to 0.25
Fine sand	0.25 to 0.10
Very fine sand	0.10 to 0.05
Silt	0.05 to 0.002
Clay	less than 0.002

Solum. The upper part of a soil profile, above the C horizon, in which the processes of soil formation are active. The solum in soil consists of the A, E, and B horizons. Generally, the characteristics of the material in these horizons are unlike those of the material below the solum. The living roots and plant and animal activities are largely confined to the solum.

Stones. Rock fragments 10 to 24 inches (25 to 60 centimeters) in diameter if rounded or 15 to 24 inches (38 to 60 centimeters) in length if flat.

Stony. Refers to a soil containing stones in numbers that interfere with or prevent tillage.

Structure, soil. The arrangement of primary soil particles into compound particles or aggregates. The principal forms of soil structure are—*platy* (laminated), *prismatic* (vertical axis of aggregates longer than horizontal), *columnar* (prisms with rounded tops), *blocky* (angular or subangular), and *granular*. *Structureless* soils are either *single grained* (each grain by itself, as in dune sand) or *massive* (the particles adhering without any regular cleavage, as in many hardpans).

Subsoil. Technically, the B horizon; roughly, the part of the solum below plow depth.

Substratum. The part of the soil below the solum.

Subsurface layer. Any surface soil horizon (A, E, AB, or EB) below the surface layer.

Summit. The topographically highest position of a hillslope. It has a nearly level (planar or only slightly convex) surface.

Surface layer. The soil ordinarily moved in tillage, or its equivalent in uncultivated soil, ranging in depth from 4 to 10 inches (10 to 25 centimeters). Frequently designated as the "plow layer," or the "Ap horizon."

Surface soil. The A, E, AB, and EB horizons, considered collectively. It includes all subdivisions of these horizons.

Talus. Fragments of rock and other soil material accumulated by gravity at the foot of cliffs or steep slopes.

Taxadjuncts. Soils that cannot be classified in a series recognized in the classification system. Such soils are named for a series they strongly resemble and are designated as taxadjuncts to that series because they differ in ways too small to be of consequence in interpreting their use and behavior. Soils are recognized as taxadjuncts only when one or more of their characteristics are slightly outside the range defined for the family of the series for which the soils are named.

Terminal moraine. A belt of thick glacial drift that generally marks the termination of important glacial advances.

Terrace (geologic). An old alluvial plain, ordinarily flat or undulating, bordering a river, a lake, or the sea.

Texture, soil. The relative proportions of sand, silt, and clay particles in a mass of soil. The basic textural classes, in order of increasing proportion of fine particles, are *sand, loamy sand, sandy loam, loam, silt loam, silt, sandy clay loam, clay loam, silty clay loam, sandy clay, silty clay*, and *clay*. The sand, loamy sand, and sandy loam classes may be further divided by specifying “coarse,” “fine,” or “very fine.”

Thin layer (in tables). Otherwise suitable soil material that is too thin for the specified use.

Tilth, soil. The physical condition of the soil as related to tillage, seedbed preparation, seedling emergence, and root penetration.

Toeslope. The position that forms the gently inclined surface at the base of a hillslope. Toeslopes in profile are commonly gentle and linear and are constructional surfaces forming the lower part of a hillslope continuum that grades to valley or closed-depression floors.

Too arid (in tables). The soil is dry most of the time, and vegetation is difficult to establish.

Topsoil. The upper part of the soil, which is the most favorable material for plant growth. It is ordinarily rich in organic matter and is used to topdress roadbanks, lawns, and land affected by mining.

Trace elements. Chemical elements, for example, zinc, cobalt, manganese, copper, and iron, in soils in extremely small amounts. They are essential to plant growth.

Tuff. A compacted deposit that is 50 percent or more volcanic ash and dust.

Upland. Land at a higher elevation, in general, than the alluvial plain or stream terrace; land above the lowlands along streams.

Valley fill. In glaciated regions, material deposited in stream valleys by glacial meltwater. In nonglaciated regions, alluvium deposited by heavily loaded streams.

Variegation. Refers to patterns of contrasting colors assumed to be inherited from the parent material rather than to be the result of poor drainage.

Water bars. Smooth, shallow ditches or depressional areas that are excavated at an angle across a sloping road. They are used to reduce the downward velocity of water and divert it off and away from the road surface. Water bars can easily be driven over if constructed properly.

Weathering. All physical and chemical changes produced in rocks or other deposits at or near the earth's surface by atmospheric agents. These changes result in disintegration and decomposition of the material.

Well graded. Refers to soil material consisting of coarse grained particles that are well distributed over a wide range in size or diameter. Such soil normally can be easily increased in density and bearing properties by compaction. Contrasts with poorly graded soil.

Wilting point (or permanent wilting point). The moisture content of soil, on an oven-dry basis, at which a plant (specifically a sunflower) wilts so much that it does not recover when placed in a humid, dark chamber.

Windthrow. The uprooting and tipping over of trees by the wind.

Tables

Table 1.--Temperature and precipitation

Rico, Colorado 1961-1990

Month	Temperature (Degrees F.)						Precipitation (Inches)				
				2 yrs in 10 will have			2 yrs.in 10 will have		avg. # of		avg. total snow fall
	avg. daily max.	avg. daily min.	avg.	max. temp. >than	min. temp. <than	avg. # of grow. deg. days*	avg.	less than	more than	days w/.1 or more	
January	38.3	4.9	21.6	57	-23	0	2.26	0.87	3.43	5	25.7
February	40.3	7.0	23.7	57	-20	0	2.20	0.90	3.31	6	27.3
March	43.0	12.6	27.8	61	-13	2	2.72	1.33	3.93	8	33.5
April	50.7	20.7	35.7	68	-1	30	1.92	1.12	2.62	6	18.8
May	60.7	27.7	44.2	76	13	158	1.78	0.79	2.63	5	5.6
June	70.7	33.4	52.0	84	22	361	1.62	0.54	2.61	4	0.1
July	75.3	39.9	57.6	86	29	545	3.29	1.98	4.46	9	0.0
August	73.1	39.0	56.0	85	28	498	3.36	2.25	4.38	9	0.0
September	66.4	32.2	49.3	80	18	282	2.74	1.27	4.00	7	0.6
October	58.5	24.7	41.6	75	6	107	2.36	1.14	3.57	5	7.6
November	46.0	15.2	30.6	65	-9	8	2.36	0.94	3.55	5	23.4
December	39.1	6.9	23.0	56	-20	0	2.53	0.90	3.88	6	27.5
Yearly :											
Average	55.2	22.0	38.6	---	---	---	---	---	---	---	---
Extreme	89	-36	---	87	-26	---	---	---	---	---	---
Total	---	---	---	---	---	1990	29.15	23.96	33.98	75	170.1

Average number of days per year with at least 1 inch of snow on the ground: 150

*A growing degree day is a unit of heat available for plant growth. It can be calculated by adding the maximum and minimum daily temperatures, dividing the sum by 2, and subtracting the temperature below which growth is minimal for the principal crops in the area (Threshold: 40.0°F).

Table 1.--Temperature and precipitation--Continued

Silverton, Colorado 1961-1990

Month	Temperature (Degrees F.)						Precipitation (Inches)				
				2 yrs in 10		avg. # of	2 yrs.in 10			avg. # of	avg. total
	avg. daily max.	avg. daily min.	avg.	max. temp. >than	min. temp. <than	grow. deg. days*	avg.	less than	more than	days w/.1 or more	snow fall
January	34.3	-4.2	15.1	50	-31	0	1.46	0.55	2.23	5	20.2
February	37.5	-1.0	18.2	53	-30	0	1.80	0.66	2.75	5	22.3
March	41.4	6.6	24.0	57	-20	0	2.11	1.13	2.98	6	21.9
April	48.4	17.6	33.0	64	-5	13	1.60	0.90	2.23	5	11.5
May	59.0	26.1	42.6	73	11	117	1.56	0.78	2.35	5	3.3
June	68.9	31.3	50.1	82	21	298	1.30	0.66	1.96	4	0.0
July	73.6	37.2	55.4	84	26	475	2.96	1.77	4.03	9	0.0
August	71.2	36.2	53.7	81	25	425	3.10	2.13	3.99	10	0.0
September	64.5	29.9	47.2	78	16	222	2.93	1.52	4.17	7	0.7
October	56.3	21.5	38.9	71	1	58	2.34	1.15	3.54	6	6.2
November	43.7	9.5	26.6	62	-16	1	1.83	0.76	2.73	5	20.8
December	35.0	-0.7	17.1	51	-27	0	2.17	0.80	3.31	6	24.9
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Yearly :	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Average	52.8	17.5	35.2	---	---	---	---	---	---	---	---
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Extreme	88	-39	---	86	-33	---	---	---	---	---	---
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Total	---	---	---	---	---	1609	25.18	15.59	29.14	73	131.9
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Average number of days per year with at least 1 inch of snow on the ground: 137

*A growing degree day is a unit of heat available for plant growth. It can be calculated by adding the maximum and minimum daily temperatures, dividing the sum by 2, and subtracting the temperature below which growth is minimal for the principal crops in the area (Threshold: 40.0°F).

Table 1.--Temperature and precipitation--Continued

Vallecito Dam, Colorado 1961-1990

Month	Temperature (Degrees F.)						Precipitation (Inches)				
				2 yrs in 10		avg. # of	will have			avg. # of	avg. total
	avg. daily max.	avg. daily min.	avg.	max. temp. >than	min. temp. <than	grow. deg. days*	avg.	less than	more than	days w/.1 or more	snow fall
January	36.9	5.3	21.1	53	-23	0	2.09	0.67	3.25	5	26.0
February	40.9	9.2	25.0	57	-18	1	1.91	0.70	2.92	4	22.0
March	46.3	16.9	31.6	65	-9	15	2.47	0.89	3.78	6	26.0
April	55.9	25.0	40.5	72	6	87	1.70	0.70	2.56	4	9.0
May	64.8	32.4	48.6	79	19	275	1.49	0.68	2.19	4	1.6
June	75.4	39.7	57.5	88	27	526	1.05	0.23	1.75	2	0.0
July	80.5	47.1	63.8	90	37	738	2.58	1.36	3.65	6	0.0
August	77.7	45.6	61.7	88	36	671	3.45	1.88	4.84	8	0.0
September	71.1	38.8	54.9	85	25	448	2.71	1.24	3.97	6	0.0
October	61.4	29.9	45.7	77	14	201	2.67	0.65	4.27	4	3.2
November	47.8	20.5	34.1	66	0	24	2.30	1.08	3.49	4	14.7
December	38.7	11.2	24.9	56	-13	0	2.62	0.94	4.02	5	27.1
Yearly :											
Average	58.1	26.8	42.5	---	---	---	---	---	---	---	---
Extreme	92	-35	---	91	-24	---	---	---	---	---	---
Total	---	---	---	---	---	2985	27.05	22.10	31.21	58	129.5

Average number of days per year with at least 1 inch of snow on the ground: 25

*A growing degree day is a unit of heat available for plant growth. It can be calculated by adding the maximum and minimum daily temperatures, dividing the sum by 2, and subtracting the temperature below which growth is minimal for the principal crops in the area (Threshold: 40.0°F).

Table 2.--Freeze dates in spring and fall

Rico, Colorado, 1961-1990

Probability	Temperature		
	24°F or lower	28°F or lower	32°F or lower
Last freezing temperature in spring:			
1 year in 10 later than--	June 18	July 3	July 21
2 years in 10 later than--	June 11	June 27	July 15
5 years in 10 later than--	May 29	June 16	July 4
First freezing temperature in fall:			
1 yr. in 10 earlier than--	August 31	August 22	August 6
2 yrs. in 10 earlier than--	September 7	August 28	August 13
5 yrs. in 10 earlier than--	September 21	September 9	August 26

Silverton, Colorado, 1961-1990

Probability	Temperature		
	24°F or lower	28°F or lower	32°F or lower
Last freezing temperature in spring:			
1 year in 10 later than--	June 29	July 20	July 31
2 years in 10 later than--	June 21	July 13	July 26
5 years in 10 later than--	June 7	June 29	July 16
First freezing temperature in fall:			
1 yr. in 10 earlier than--	August 26	August 7	July 29
2 yrs. in 10 earlier than--	September 2	August 14	August 4
5 yrs. in 10 earlier than--	September 16	August 26	August 15

Table 2.--Freeze dates in spring and fall--Continued

Vallecito Dam, Colorado, 1961-1990

Probability	Temperature		
	24°F or lower	28°F or lower	32°F or lower
Last freezing temperature in spring:			
1 year in 10 later than--	May 25	June 11	June 24
2 years in 10 later than--	May 20	June 5	June 19
5 years in 10 later than--	May 11	May 25	June 11
First freezing temperature in fall:			
1 yr. in 10 earlier than--	September 25	September 13	September 2
2 yrs. in 10 earlier than--	October 1	September 19	September 7
5 yrs. in 10 earlier than--	October 13	September 29	September 16

Table 3.--Growing season

Rico, Colorado, 1961-1990

Probability	Daily Minimum Temperature		
	# days > 24°F	# days > 28°F	# days > 32°F
9 years in 10	78	56	23
8 years in 10	90	66	33
5 years in 10	114	83	52
2 years in 10	137	101	71
1 year in 10	150	111	81

Silverton, Colorado, 1961-1990

Probability	Daily Minimum Temperature		
	# days > 24°F	# days > 28°F	# days > 32°F
9 years in 10	61	23	2
8 years in 10	74	35	12
5 years in 10	99	58	30
2 years in 10	124	81	48
1 year in 10	138	93	57

Vallecito Dam, Colorado, 1961-1990

Probability	Daily Minimum Temperature		
	# days > 24°F	# days > 28°F	# days > 32°F
9 years in 10	130	98	78
8 years in 10	138	108	84
5 years in 10	154	126	97
2 years in 10	169	144	109
1 year in 10	177	153	116

Table 4.--Land capability and yields per acre of crops and pasture

(Yields in the "N" columns are for nonirrigated areas; those in the "I" columns are for irrigated areas. Yields are those that can be expected under a high level of management. Absence of a yield indicates that the soil is not suited to the crop or the crop generally is not grown on the soil.)

Map symbol and soil name	Land capability		Pasture	
	N	I	N	I
			<u>AUM</u>	<u>AUM</u>
13: Fughes-----	4e	4e	1.20	6.50
14: Dalmatian-----	4c	4c	1.40	7.00
Apmay-----	4c	4c	1.40	6.00
Schrader-----	4w	4w	1.00	5.00
17: Fluvaquents-----	7w	---	---	---
Haplustolls-----	4s	4s	1.00	4.00
18: Endoaquolls-----	6w	4w	1.40	5.00
Ustifluvents-----	3c	3c	1.00	6.00
512: Wetherill-----	3e	3e	0.70	6.50
955: Umbarg-----	3w	3w	1.00	8.00
Winner-----	6w	6w	1.00	6.00
Tesajo-----	4w	4w	1.00	5.00
959: Granath-----	4c	4c	1.00	5.00

Table 5.--Acreage and proportionate extent of the soils

Map symbol	Soil name	Archuleta County	Dolores County	Hinsdale County	La Plata County	Montezuma County	San Juan County	San Miguel County	Total	
									Area	Extent
		<u>Acres</u>	<u>Acres</u>	<u>Acres</u>	<u>Acres</u>	<u>Acres</u>	<u>Acres</u>	<u>Acres</u>	<u>Acres</u>	<u>Pct.</u>
1	Bradfield-Narraguinne complex, 0 to 5 percent slopes-----	---	1,333	---	---	168	---	---	1,501	0.1
2	Hesperus loam, 0 to 3 percent slopes-----	---	494	---	---	330	---	---	824	*
10	Lillings silty clay loam, 0 to 5 percent slopes-----	---	1,339	---	---	---	---	---	1,339	0.1
12	Shawa loam, 0 to 5 percent slopes-----	---	186	---	---	416	---	---	602	*
13	Fughes loam, 1 to 12 percent slopes-----	---	4,838	---	---	976	---	40	5,854	0.5
14	Dalmatian-Apway-Schrader complex, 0 to 5 percent slopes-----	---	583	---	---	2,102	---	---	2,685	0.2
15	Umbarg loam, 0 to 5 percent slopes-----	---	90	---	---	323	---	---	413	*
16	Payter sandy loam, 3 to 15 percent slopes----	---	552	---	---	180	---	25	757	*
17	Fluvaquents-Haplustolls complex, 0 to 5 percent slopes-----	---	437	---	---	634	---	18	1,089	*
18	Endoaquolls-Ustifluvents complex, 0 to 5 percent slopes-----	---	1,147	6	---	2,058	---	---	3,211	0.3
20	Mavreeso loam, 5 to 30 percent slopes-----	---	814	---	---	1,063	---	---	1,877	0.1
51	Clayburn-Hourglass complex, 5 to 25 percent slopes-----	---	988	79	2,902	93	178	---	4,240	0.3
52	Ohwiler loam, 12 to 30 percent slopes-----	---	128	---	219	---	6	---	353	*
53	Cryaquolls-Typic Cryaquents complex, 1 to 5 percent slopes-----	---	1,064	1,129	888	286	795	---	4,162	0.3
54	Quazar very cobbly loam, 5 to 25 percent slopes-----	---	820	1,013	1,271	130	2,097	---	5,331	0.4
56	Typic Cryaquents-Cryaquolls-Cryofibrists complex, 0 to 5 percent slopes-----	---	2,506	1,166	220	578	1,620	---	6,090	0.5
57	Howardsville gravelly loam, 1 to 6 percent slopes-----	---	---	---	200	---	905	---	1,105	*
58	Fughes-Herm complex, 5 to 25 percent slopes--	---	827	---	---	2,207	---	---	3,034	0.2
59	Fughes-Herm complex, 25 to 45 percent slopes--	---	308	---	---	280	---	---	588	*
60	Grimes very cobbly sandy loam, 0 to 3 percent slopes-----	---	---	117	844	---	18	---	979	*
110	Sheek-Ormiston complex, 3 to 30 percent slopes-----	---	660	---	---	628	---	---	1,288	0.1
111	Fardraw loam, 3 to 15 percent slopes-----	---	1,355	---	125	224	---	---	1,704	0.1
113	Dolores loam, 30 to 65 percent slopes-----	---	801	---	---	---	---	---	801	*
150	Silex-Rock outcrop complex, 10 to 20 percent slopes-----	---	64	488	88	---	1,760	---	2,400	0.2
151	Frisco loam, 10 to 25 percent slopes-----	---	7,160	12	7,383	441	---	---	14,996	1.2
152	Frisco loam, 25 to 45 percent slopes-----	---	2,718	---	2,434	---	---	---	5,152	0.4
153	Frisco-Horsethief complex, 10 to 30 percent slopes-----	---	2,911	537	1,689	385	116	---	5,638	0.4
154	Frisco-Horsethief complex, 30 to 75 percent slopes-----	219	17,300	1,301	2,802	10,438	1,125	---	33,185	2.6
155	Tuckerville-Rock outcrop complex, 30 to 60 percent slopes-----	---	1,129	702	1,745	118	110	---	3,804	0.3
156	Sponsor-Tuckerville complex, 15 to 30 percent slopes-----	---	---	---	582	---	---	---	582	*
157	Sponsor-Tuckerville complex, 15 to 30 percent slopes, very bouldery-----	---	---	---	450	---	37	---	487	*
158	Sponsor-Tuckerville complex, 30 to 60 percent slopes-----	---	212	---	1,332	---	214	---	1,758	0.1
159	Tuckerville very stony sandy loam, 15 to 55 percent slopes-----	210	---	714	2,928	---	---	---	3,852	0.3
160	Anvik-Tuckerville complex, 10 to 45 percent slopes-----	190	---	---	3,084	---	---	---	3,274	0.3
161	Needleton stony loam, 5 to 15 percent slopes--	---	---	501	363	292	1,253	---	2,409	0.2
162	Quazar-Varden complex, 15 to 65 percent slopes-----	---	70	580	632	342	2,396	---	4,020	0.3
163	Clayburn-Hourglass complex, 15 to 30 percent slopes-----	---	276	---	1,645	---	---	---	1,921	0.2

See footnote at end of table.

Table 5.--Acreage and proportionate extent of the soils--Continued

Map symbol	Soil name	Archuleta County	Dolores County	Hinsdale County	La Plata County	Montezuma County	San Juan County	San Miguel County	Total	
									Area	Extent
		<u>Acres</u>	<u>Acres</u>	<u>Acres</u>	<u>Acres</u>	<u>Acres</u>	<u>Acres</u>	<u>Acres</u>	<u>Acres</u>	<u>Pct.</u>
164	Hourglass-Bucklon-Wander complex, 30 to 60 percent slopes-----	---	2,077	1,209	2,008	44	---	---	5,338	0.4
165	Pinacol loam, 1 to 12 percent slopes-----	---	---	---	144	---	---	---	144	*
166	Pinacol loam, 12 to 40 percent slopes-----	---	---	---	632	44	---	---	676	*
250	Snowdon-Rock outcrop complex, 30 to 65 percent slopes-----	---	1,128	8,663	20,155	1,778	10,615	---	42,339	3.3
251	Rock outcrop-Snowdon complex, 45 to 75 percent slopes-----	---	192	5,806	18,022	472	16,578	---	41,070	3.2
254	Cryorthents-Rubble land complex, 30 to 75 percent slopes-----	---	2,551	73	538	68	3,081	---	6,311	0.5
330	Needleton stony loam, 15 to 30 percent slopes-----	---	---	910	1,426	1,268	4,230	---	7,834	0.6
331	Needleton stony loam, 30 to 65 percent slopes-----	---	52	73	6,818	1,094	13,907	---	21,944	1.7
332	Horsethief-Needleton complex, 30 to 60 percent slopes-----	---	90	2,234	2,646	---	5,673	---	10,643	0.8
333	Henson very gravelly loam, south aspect, 10 to 30 percent slopes-----	---	---	---	263	---	24	---	287	*
334	Henson very gravelly loam, south aspect, 30 to 60 percent slopes-----	---	1,077	---	888	367	905	---	3,237	0.3
335	Whitecross-Rock outcrop complex, 15 to 45 percent slopes-----	---	910	2,253	2,690	174	8,411	---	14,438	1.1
336	Whitecross-Rock outcrop complex, south aspect, 30 to 75 percent slopes-----	---	718	1,380	1,107	218	1,186	---	4,609	0.4
337	Whitecross-Rock outcrop complex, 45 to 75 percent slopes-----	---	1,096	4,322	9,614	112	25,827	---	40,971	3.2
338	Henson very gravelly loam, 10 to 30 percent slopes-----	---	410	360	776	112	1,137	---	2,795	0.2
339	Henson very gravelly loam, 30 to 60 percent slopes-----	---	1,321	580	1,526	423	6,559	---	10,409	0.8
340	Moran very gravelly loam, 10 to 30 percent slopes-----	---	282	1,630	19	118	2,323	---	4,372	0.3
341	Moran very gravelly loam, 30 to 65 percent slopes-----	---	257	226	163	6	2,139	---	2,791	0.2
342	Telluride-Rock outcrop complex, 15 to 45 percent slopes-----	---	250	1,630	225	143	2,787	---	5,035	0.4
343	Telluride-Rock outcrop complex, 45 to 75 percent slopes-----	---	147	678	25	---	1,608	---	2,458	0.2
345	Papaspila loam, 0 to 15 percent slopes-----	---	13	---	---	821	---	---	834	*
350	Flygare-Foidel complex, 0 to 15 percent slopes-----	---	---	---	---	3,351	---	---	3,351	0.3
355	Flygare-Foidel complex, 15 to 30 percent slopes-----	---	---	---	---	1,113	---	---	1,113	*
360	Blacksnag-Peeler complex, 2 to 15 percent slopes-----	---	---	---	---	3,227	---	---	3,227	0.3
361	Blacksnag-Peeler complex, 15 to 30 percent slopes-----	---	---	697	112	3,612	---	---	4,421	0.3
374	Mavreeso-Valto-Rock outcrop complex, 30 to 80 percent slopes-----	---	4,462	---	---	6,621	---	---	11,083	0.9
375	Needleton-Snowdon complex, 5 to 15 percent slopes-----	---	---	282	294	130	1,809	---	2,515	0.2
376	Needleton loam, 15 to 30 percent slopes-----	---	288	43	1,451	---	122	---	1,904	0.2
378	Needleton-Haviland complex, 30 to 60 percent slopes-----	957	5,988	293	14,838	7,815	4,908	---	34,799	2.8
380	Snowdon-Rock outcrop complex, 10 to 30 percent slopes-----	---	---	543	1,683	---	905	---	3,131	0.2
381	Needleton-Snowdon-Rock outcrop complex, 30 to 80 percent slopes-----	---	17,964	9,794	11,823	17,097	12,164	---	68,842	5.4
382	Needleton-Snowdon complex, 15 to 30 percent slopes-----	---	3,987	1,777	3,428	852	2,989	---	13,033	1.0
383	Haviland-Needleton complex, 10 to 30 percent slopes-----	---	90	672	2,277	2,002	2,335	---	7,376	0.6
386	Needleton stony loam, 60 to 90 percent slopes-----	---	---	---	---	205	86	---	291	*

See footnote at end of table.

Table 5.--Acreage and proportionate extent of the soils--Continued

Map symbol	Soil name	Archuleta County	Dolores County	Hinsdale County	La Plata County	Montezuma County	San Juan County	San Miguel County	Total	
									Area	Extent
		<u>Acres</u>	<u>Acres</u>	<u>Acres</u>	<u>Acres</u>	<u>Acres</u>	<u>Acres</u>	<u>Acres</u>	<u>Acres</u>	<u>Pct.</u>
387	Frisco-Quazar complex, 30 to 60 percent slopes-----	---	1,148	---	2,158	130	---	---	3,436	0.3
388	Frisco-Quazar complex, 15 to 30 percent slopes-----	---	647	---	---	---	---	---	647	*
389	Seitz gravelly loam, 10 to 60 percent slopes-----	---	795	---	---	---	---	---	795	*
390	Clayburn-Heisspitz complex, 30 to 60 percent slopes-----	---	19	18	1,339	236	---	---	1,612	0.1
391	Runlett-Sessions complex, 5 to 30 percent slopes-----	---	---	---	1,633	93	---	---	1,726	0.1
392	Runlett-Needleton-Sessions complex, 15 to 45 percent slopes-----	---	77	---	2,283	1,138	177	---	3,675	0.3
393	Heisspitz-Sessions-Rock outcrop complex, 5 to 15 percent slopes-----	---	6	281	607	---	18	---	912	*
394	Clayburn-Heisspitz complex, 15 to 30 percent slopes-----	---	32	---	632	68	---	---	732	*
395	Scout silt loam, 10 to 30 percent slopes-----	---	2,648	24	---	---	---	---	2,672	0.2
396	Scout silt loam, 30 to 60 percent slopes-----	---	2,410	293	---	---	---	---	2,703	0.2
399	Kite-Rock outcrop complex, 15 to 30 percent slopes-----	---	---	---	600	---	19	---	619	*
450	Lostlake-Rock outcrop complex, 30 to 80 percent slopes-----	---	83	2,644	9,865	---	1,553	---	14,145	1.1
452	Dystrocryepts-Rock outcrop complex, 15 to 30 percent slopes-----	---	90	665	6,931	---	2,598	---	10,284	0.8
453	Sig-Rock outcrop-Snowdon complex, 15 to 45 percent slopes-----	---	13	458	563	---	1,412	---	2,446	0.2
454	Snowdon-Sig-Rock outcrop complex, 15 to 45 percent slopes-----	---	---	4,646	4,998	---	1,271	---	10,915	0.9
493	Badland-----	---	295	---	---	---	---	---	295	*
494	Pits, gravel-----	---	10	---	10	15	15	---	50	*
495	Riverwash-----	---	---	---	288	---	520	---	808	*
496	Rock outcrop-----	7	2,211	6,172	18,722	1,368	36,200	12	64,692	5.1
497	Rubble land-----	---	7,334	3,516	6,305	5,017	20,461	---	42,633	3.4
498	Slickens-----	---	---	---	---	---	70	---	70	*
499	Water-----	---	125	519	250	1,477	1,027	---	3,398	0.3
500	Dolores-Fivepine complex, 0 to 15 percent slopes-----	---	11,440	---	---	964	---	---	12,404	1.0
501	Fivepine-Nortez complex, 0 to 15 percent slopes-----	---	7,489	---	---	646	---	531	8,666	0.7
503	Ormiston-Fivepine complex, 0 to 15 percent slopes-----	---	1,606	---	---	---	---	909	2,515	0.2
504	Jemco-Detra-Beje complex, 1 to 15 percent slopes-----	---	20,366	---	294	16,878	---	---	37,538	3.0
505	Moento loam, 0 to 15 percent slopes-----	---	2,141	---	75	149	---	---	2,365	0.2
506	Moento-Detra-Jemco complex, 0 to 15 percent slopes-----	---	3,391	---	---	1,088	---	---	4,479	0.4
508	Herm-Pagoda complex, 0 to 15 percent slopes-----	---	3,314	---	---	6,354	---	---	9,668	0.8
509	Burnson loam, dry, 1 to 15 percent slopes-----	---	353	---	---	2,070	---	---	2,423	0.2
510	Jemco-Moento complex, 0 to 15 percent slopes-----	---	1,757	---	---	298	---	---	2,055	0.2
511	Granath-Fughes complex, 0 to 15 percent slopes-----	---	12,520	---	---	8,190	---	---	20,710	1.6
512	Wetherill loam, 3 to 6 percent slopes-----	---	193	---	---	385	---	---	578	*
513	Maudrey-Tombac complex, 0 to 15 percent slopes-----	---	1,737	---	---	12,695	---	---	14,432	1.1
525	Arabrab loam, 0 to 15 percent slopes-----	---	654	---	---	---	---	---	654	*
526	Lonecone loam, 0 to 5 percent slopes-----	---	724	---	---	---	---	---	724	*
527	Ormiston-Beje complex, 5 to 30 percent slopes-----	---	1,620	---	---	2,076	---	174	3,870	0.3
552	Burnson loam, 1 to 15 percent slopes-----	---	6,013	---	---	17,886	---	---	23,899	1.9
553	Burnson-Herm complex, 15 to 30 percent slopes-----	---	275	---	---	2,941	---	---	3,216	0.3
571	Mancos-Skisams-Skutum complex, 1 to 15 percent slopes-----	---	1,590	---	---	5,751	---	---	7,341	0.6

See footnote at end of table.

Table 5.--Acreage and proportionate extent of the soils--Continued

Map symbol	Soil name	Archuleta County	Dolores County	Hinsdale County	La Plata County	Montezuma County	San Juan County	San Miguel County	Total	
									Area	Extent
		<u>Acres</u>	<u>Acres</u>	<u>Acres</u>	<u>Acres</u>	<u>Acres</u>	<u>Acres</u>	<u>Acres</u>	<u>Acres</u>	<u>Pct.</u>
572	Sudduth loam, 0 to 15 percent slopes-----	---	443	---	---	1,330	---	---	1,773	0.1
600	Valto-Rock outcrop complex, 10 to 65 percent slopes-----	---	20	---	7,900	460	---	---	8,380	0.7
601	Weminuche loam, 30 to 75 percent slopes-----	713	---	43	5,405	---	---	---	6,161	0.5
602	Weminuche loam, 5 to 30 percent slopes-----	---	---	---	2,552	---	---	---	2,552	0.2
603	Weminuche-Anvik complex, 15 to 60 percent slopes-----	---	---	---	3,203	---	---	---	3,203	0.3
605	Nordicol very stony sandy loam, 6 to 25 percent slopes-----	---	7	482	3,955	970	---	---	5,414	0.4
606	Snowdon-Needleton complex, 45 to 90 percent slopes-----	---	564	714	3,810	193	3,282	---	8,563	0.7
607	Graysill-Scotch complex, south aspect, 30 to 60 percent slopes-----	---	3,487	---	31,583	3,898	1,718	---	40,686	3.2
608	Scotch-Graysill complex, 30 to 60 percent slopes-----	---	378	---	35,862	790	2,274	---	39,304	3.1
609	Hourglass-Wander complex, 5 to 30 percent slopes-----	---	3,827	128	2,008	348	868	---	7,179	0.6
610	Wander-Hotter-Hourglass complex, 30 to 60 percent slopes-----	---	6,513	220	4,479	1,231	---	---	12,443	1.0
611	Goldbug very stony fine sandy loam, 5 to 30 percent slopes-----	---	---	---	4,654	628	---	---	5,282	0.4
612	Haviland-Graysill complex, 5 to 30 percent slopes-----	---	237	---	2,114	230	685	---	3,266	0.3
615	Haviland loam, 30 to 60 percent slopes-----	---	20	---	112	---	776	---	908	*
616	Fortlewis stony fine sandy loam, 3 to 12 percent slopes-----	---	---	---	2,590	2,188	---	---	4,778	0.4
617	Shawa loam, 5 to 20 percent slopes-----	---	---	---	169	---	---	---	169	*
618	Nordicol-Valto complex, 30 to 70 percent slopes-----	---	---	---	2,014	---	---	---	2,014	0.2
619	Nordicol extremely stony loam, 45 to 75 percent slopes-----	---	---	---	---	435	---	---	435	*
620	Caviness loam, 15 to 30 percent slopes-----	---	---	---	2,221	373	---	---	2,594	0.2
621	Granturk loam, 5 to 25 percent slopes-----	---	---	---	---	---	1,736	---	1,736	0.1
622	Granturk-Rock outcrop complex, 25 to 60 percent slopes-----	---	---	---	---	---	1,382	---	1,382	0.1
623	Chris-Nordicol complex, 15 to 45 percent slopes-----	68	---	623	---	---	---	---	691	*
699	Haplocryolls-Rubble land complex, 10 to 60 percent slopes-----	---	32	---	319	---	---	---	351	*
700	Bradfield clay loam, 0 to 5 percent slopes---	---	2,603	---	---	37	---	---	2,640	0.2
703	Narraguinnep clay loam, 15 to 50 percent slopes-----	---	5,128	---	---	628	---	---	5,756	0.5
704	Gladlow-Rock outcrop-Ruko complex, 3 to 15 percent slopes-----	---	423	---	---	---	---	---	423	*
705	Helmet clay loam, 1 to 15 percent slopes-----	---	398	---	---	665	---	---	1,063	*
706	Narraguinnep clay loam, 5 to 15 percent slopes-----	---	5,526	---	---	1,585	---	---	7,111	0.6
707	Teedown-Nordicol complex, 5 to 15 percent slopes-----	---	1,398	---	---	920	---	---	2,318	0.2
708	Helmet clay loam, 30 to 60 percent slopes---	---	616	---	---	323	---	---	939	*
709	Teedown loam, 0 to 20 percent slopes-----	---	1,744	---	---	634	---	---	2,378	0.2
710	Sili-Zigzag complex, 5 to 15 percent slopes---	---	3,532	---	---	---	---	---	3,532	0.3
711	Sili clay loam, 5 to 15 percent slopes-----	---	2,916	---	---	---	---	---	2,916	0.2
714	Helmet loam, 15 to 30 percent slopes-----	---	65	---	---	671	---	---	736	*
718	Narraguinnep-Gladlow complex, 5 to 30 percent slopes-----	---	1,237	---	---	---	---	---	1,237	*
720	Zigzag-Rock outcrop complex, 30 to 80 percent slopes-----	---	3,660	---	---	---	---	---	3,660	0.3
723	Zigzag-Rock outcrop complex, 15 to 30 percent slopes-----	---	4,897	---	---	---	---	---	4,897	0.4
725	Shawa loam, 20 to 30 percent slopes-----	---	423	---	---	---	---	---	423	*

See footnote at end of table.

Table 5.--Acreage and proportionate extent of the soils--Continued

Map symbol	Soil name	Archuleta County	Dolores County	Hinsdale County	La Plata County	Montezuma County	San Juan County	San Miguel County	Total	
									Area	Extent
		<u>Acres</u>	<u>Acres</u>	<u>Acres</u>	<u>Acres</u>	<u>Acres</u>	<u>Acres</u>	<u>Acres</u>	<u>Acres</u>	<u>Pct.</u>
727	Teedown-Nordic complex, 15 to 30 percent slopes-----	---	6,346	---	---	4,588	---	---	10,934	0.9
730	Baird Hollow-Nordic-Ryman complex, 5 to 40 percent slopes-----	---	872	---	---	---	---	---	872	*
731	Ryman-Adel complex, 1 to 15 percent slopes-----	---	4,840	---	---	---	---	---	4,840	0.4
732	Adel-Quazar complex, 5 to 30 percent slopes-----	---	878	---	---	---	---	---	878	*
733	Adel-Bucklon complex, 10 to 30 percent slopes-----	---	859	---	---	---	---	---	859	*
734	Ryman-Clayburn complex, 2 to 15 percent slopes-----	---	917	---	---	---	---	---	917	*
740	Cowtown-Scout complex, 5 to 30 percent slopes-----	---	3,346	---	---	---	---	---	3,346	0.3
741	Cowtown-Scout complex, 30 to 60 percent slopes-----	---	808	---	---	---	---	---	808	*
750	Archuleta-Sheek complex, 12 to 65 percent slopes-----	---	---	---	2,527	920	---	---	3,447	0.3
801	Fughes-Sheek complex, 15 to 30 percent slopes-----	---	8,106	---	494	4,744	---	150	13,494	1.1
802	Argiustolls-Haplustalfs-Rock outcrop complex, 30 to 80 percent slopes-----	---	18,560	---	4,785	16,432	---	100	39,877	3.2
804	Wauquie-Dolcan-Rock outcrop complex, 25 to 80 percent slopes-----	---	9,197	---	---	5,210	---	463	14,870	1.2
805	Shawa-Fughes complex, 15 to 30 percent slopes-----	---	750	---	---	460	---	---	1,210	*
806	Shawa-Fughes complex, 30 to 60 percent slopes-----	---	1,840	---	---	1,129	---	---	2,969	0.2
809	Argiustolls-Haplustalfs complex, 30 to 80 percent slopes-----	---	1,872	---	1,195	4,482	---	---	7,549	0.6
813	Fughes silty clay loam, 5 to 30 percent slopes-----	---	---	---	---	497	---	---	497	*
814	Leaps-Hofly complex, 5 to 40 percent slopes-----	---	1,724	---	---	---	---	---	1,724	0.1
815	Behanco-Powderhorn family complex, 0 to 15 percent slopes-----	---	3,109	---	---	15,735	---	---	18,844	1.5
816	Storm extremely flaggy loam, 15 to 30 percent slopes-----	---	5,122	---	12	1,840	---	---	6,974	0.6
826	Ute-Frisco complex, 0 to 20 percent slopes-----	---	4,347	159	944	37	---	---	5,487	0.4
830	Dressel-Jersey complex, 30 to 80 percent slopes-----	---	15,814	---	---	13,690	---	---	29,504	2.3
832	Storm extremely flaggy loam, 0 to 15 percent slopes-----	---	5,725	---	---	3,245	---	---	8,970	0.7
834	Haycamp-Jersey complex, 30 to 80 percent slopes-----	---	3,122	---	---	1,013	---	---	4,135	0.3
835	Brumley loam, 0 to 15 percent slopes-----	---	1,019	---	---	---	---	---	1,019	*
860	Granath-Nortez complex, 0 to 15 percent slopes-----	---	4,409	---	---	3,332	---	200	7,941	0.6
861	Morapos loam, 0 to 15 percent slopes-----	---	1,244	---	---	---	---	---	1,244	*
862	Granath-Dolores-Fivepine complex, 0 to 15 percent slopes-----	---	1,792	---	---	1,436	---	---	3,228	0.3
863	Granath-Ormiston-Fivepine complex, 0 to 15 percent slopes-----	---	2,031	---	---	---	---	113	2,144	0.2
890	Tamarron-Frisco complex, 30 to 60 percent slopes-----	---	365	---	5,555	---	---	---	5,920	0.5
891	Tamarron-Frisco complex, 15 to 30 percent slopes-----	---	77	---	944	112	---	---	1,133	*
901	Granath-Zoltay-Nortez complex, 0 to 15 percent slopes-----	---	186	---	---	---	---	---	186	*
903	Anvik loam, 12 to 45 percent slopes-----	102	---	---	1,314	---	---	---	1,416	0.1
904	Beje fine sandy loam, 3 to 25 percent slopes-----	---	126	---	---	---	---	175	301	*
905	Cryaquolls, 0 to 3 percent slopes-----	---	26	---	---	---	---	---	26	*
906	Archuleta loam, 12 to 65 percent slopes-----	---	---	---	138	---	---	---	138	*
907	Archuleta-Sanchez complex, 12 to 65 percent slopes-----	---	---	---	200	---	---	---	200	*
908	Adel loam, 5 to 30 percent slopes-----	---	64	---	---	---	---	---	64	*
909	Adel loam, moist, 15 to 50 percent slopes-----	---	218	---	---	---	---	---	218	*
917	Chris very stony loam, 9 to 25 percent slopes-----	434	---	---	---	---	---	---	434	*

See footnote at end of table.

Table 5.--Acreage and proportionate extent of the soils--Continued

Map symbol	Soil name	Archuleta County	Dolores County	Hinsdale County	La Plata County	Montezuma County	San Juan County	San Miguel County	Total	
									Area	Extent
		<u>Acres</u>	<u>Acres</u>	<u>Acres</u>	<u>Acres</u>	<u>Acres</u>	<u>Acres</u>	<u>Acres</u>	<u>Acres</u>	<u>Pct.</u>
919	Clayburn loam, 3 to 12 percent slopes-----	---	---	---	138	---	---	---	138	*
920	Clayburn cobbly loam, 6 to 25 percent slopes-----	---	---	---	169	---	---	---	169	*
926	Ustolls-Rock outcrop complex, 40 to 90 percent slopes-----	---	1,155	---	---	---	---	300	1,455	0.1
930	Fortlewis-Rock outcrop complex, 6 to 25 percent slopes-----	---	---	---	826	---	---	---	826	*
934	Creek very flaggy clay loam, 10 to 40 percent slopes-----	---	160	---	---	---	---	---	160	*
937	Herm loam, 6 to 25 percent slopes-----	---	13	---	100	---	---	---	113	*
939	Ohwiler loam, 3 to 12 percent slopes-----	---	---	---	62	---	---	---	62	*
940	Horsethief stony fine sandy loam, 20 to 65 percent slopes-----	---	---	---	2,352	---	---	---	2,352	0.2
942	Fivepine-Pino complex, 0 to 15 percent slopes-----	---	755	---	---	---	---	110	865	*
945	Nizhoni-Arabrab-Rock outcrop complex, 1 to 50 percent slopes-----	---	154	---	---	---	---	---	154	*
950	Pescar fine sandy loam-----	---	---	---	25	---	---	---	25	*
951	Endoaquolls, 0 to 3 percent slopes-----	---	45	---	---	---	---	---	45	*
955	Umbarg-Winner-Tesajo complex, 0 to 2 percent slopes-----	---	96	---	---	56	---	---	152	*
956	Ormiston-Granath complex, 1 to 12 percent slopes-----	---	455	---	---	62	---	---	517	*
958	Sheek-Archuleta-Rock outcrop complex, 25 to 80 percent slopes-----	---	135	---	---	584	---	---	719	*
959	Granath loam, 3 to 6 percent slopes-----	---	103	---	---	149	---	42	294	*
965	Narraguinnep-Dapoin complex, 1 to 15 percent slopes-----	---	186	---	---	---	---	---	186	*
966	Cryaquepts, 0 to 6 percent slopes-----	---	---	85	---	---	---	---	85	*
967	Quazar-Cryaquolls-Cryohemists association, 1 to 30 percent slopes-----	---	---	37	---	---	---	---	37	*
968	Nortez-Granath complex, 1 to 12 percent slopes-----	---	766	---	---	218	---	618	1,602	0.1
969	Nortez-Fivepine complex, 1 to 12 percent slopes-----	---	1,052	---	---	---	---	320	1,372	0.1
972	Pagoda-Coulterg-Wiggler complex, 10 to 60 percent slopes-----	---	58	---	---	---	---	---	58	*
989	Ryman loam, dry, 2 to 20 percent slopes-----	---	83	---	---	---	---	---	83	*
990	Ryman loam, warm, 2 to 20 percent slopes-----	---	577	---	---	---	---	---	577	*
992	Gladlow clay loam, 3 to 20 percent slopes-----	---	173	---	---	---	---	---	173	*
996	Zoltay loam, 3 to 15 percent slopes-----	---	102	---	---	---	---	---	102	*
997	Zigzag-Bodot-Rock outcrop complex, 15 to 30 percent slopes-----	---	641	---	---	---	---	---	641	*
Total-----		2,900	360,100	76,200	333,700	264,400	223,000	4,300	1,264,600	100.0

* Less than 0.1 percent.

Table 6.--Rangeland and woodland understory productivity and characteristic plant communities

Map symbol and soil name	Ecological site	Total production		Characteristic native vegetation	Composition	
		Kind of year	Dry weight		Forest	Range-land
			Lb/acre		Pct.	Pct.
1: Bradfield-----	Mountain Clay Loam	Favorable	1,500	western wheatgrass		25
		Normal	1,100	mountain big sagebrush		15
		Unfavorable	800	Arizona fescue		15
				mountain brome		10
				prairie Junegrass		10
				muttongrass		5
Narraguinnep----	Deep Clay Loam	Favorable	2,500	western wheatgrass		40
		Normal	2,000	Letterman's needlegrass		15
		Unfavorable	1,500	mountain big sagebrush		10
				slender wheatgrass		5
				muttongrass		5
				rabbitbrush		5
2: Hesperus-----	Mountain Meadow	Favorable	4,000	tufted hairgrass		40
		Normal	3,000	sedge		25
		Unfavorable	2,000	Arizona fescue		5
				mountain muhly		5
				shrubby cinquefoil		5
				Rocky Mountain iris		5
	bluegrass		5			
		cinquefoil		5		
10: Lillings-----	Alkali Bottom	Favorable	1,000	alkali sacaton		25
		Normal	700	greasewood		15
		Unfavorable	500	basin big sagebrush		10
				western wheatgrass		10
				mountain brome		5
				fourwing saltbush		5
				bottlebrush squirreltail		5
				needleandthread		5
				galleta		5
12: Shawa-----	Loamy Park	Favorable	1,800	Arizona fescue		25
		Normal	1,300	western wheatgrass		15
		Unfavorable	800	needleandthread		10
				mountain brome		10
				Indian ricegrass		10
				basin big sagebrush		5
				muttongrass		5
				Gambel's oak		5
				common snowberry		5
13: Fughes-----	Loamy Park	Favorable	2,300	Arizona fescue		20
		Normal	1,800	mountain muhly		20
		Unfavorable	1,100	Parry's danthonia		10
				western wheatgrass		10
				tufted hairgrass		10
				needlegrass		5
				sedge		5
				slender wheatgrass		5
			14: Dalmatian-----	River Bottom	Favorable	2,500	elk sedge		20
Normal	2,000	mountain brome				10
Unfavorable	1,500	western yarrow				5
		tufted hairgrass				5
		Rocky Mountain iris				5
		other perennial grasses				30
		other perennial forbs				10
		other shrubs				5
	Apmay-----	River Bottom			Favorable	2,500	elk sedge		20
Normal			2,000	mountain brome		10
Unfavorable			1,500	Rocky Mountain iris		5
				tufted hairgrass		10
Schrader-----	River Bottom			other perennial grasses		30
				other perennial forbs		10
				other shrubs		5
		Favorable	2,500	elk sedge		20
		Normal	2,000	mountain brome		10
		Unfavorable	1,500	tufted hairgrass		10
		Rocky Mountain iris		5		
		other perennial grasses		30		
		other perennial forbs		10		
		other shrubs		5		

Table 6.--Rangeland and woodland understory productivity and characteristic plant communities--Continued

Map symbol and soil name	Ecological site	Total production		Characteristic native vegetation	Composition	
		Kind of year	Dry weight		Forest	Range- land
			Lb/acre				Pct.	Pct.
15: Umbarg-----	Deep Loam	Favorable Normal Unfavorable	1,800 1,500 900	western wheatgrass needleandthread basin big sagebrush Indian ricegrass muttongrass prairie Junegrass		25 15 15 10 10 5
16: Payter-----	Foothill Valley	Favorable Normal Unfavorable	1,500 1,200 800	western wheatgrass skunkbush sumac basin big sagebrush blue grama Gambel's oak bluegrass twoneedle pinyon prairie Junegrass Utah juniper needleandthread bottlebrush squirreltail Utah serviceberry		20 10 10 10 5 5 5 5 5 5 5 5
17: Fluvaquents----	River Bottom	Favorable Normal Unfavorable	2,500 2,000 1,500	western wheatgrass alkali sacaton sedge inland saltgrass needleandthread rush willow narrowleaf cottonwood		20 15 10 10 10 10 10 5
Haplustolls----	River Bottom	Favorable Normal Unfavorable	1,200 900 700	western wheatgrass willow muttongrass prairie Junegrass mountain brome Indian ricegrass		20 20 10 10 10 5
18: Endoaquolls----	River Bottom	Favorable Normal Unfavorable	2,500 2,000 1,500	Baltic rush sedge tufted hairgrass bluegrass willow narrowleaf cottonwood Woods' rose blue spruce		30 20 10 10 10 5 5 5
Ustifluvents----	River Bottom	Favorable Normal Unfavorable	1,200 1,000 800	narrowleaf cottonwood Kentucky bluegrass redtop other trees mountain brome common snowberry blue spruce		15 15 10 10 10 5 5
20: Mavreeso-----	Ponderosa Pine	Favorable Normal Unfavorable	1,000 750 400	Gambel's oak Kentucky bluegrass nodding brome elk sedge prairie Junegrass common snowberry slender cinquefoil Oregongrape western yarrow	20 10 10 10 5 5 5 5 5	
51: Clayburn-----	Subalpine Loam	Favorable Normal Unfavorable	3,500 2,800 2,000	Thurber's fescue mountain brome Letterman's needlegrass Parry's danthonia American vetch slender wheatgrass spike trisetum quaking aspen mountain snowberry Nevada pea California false hellebore		35 10 10 5 5 5 5 3 3 2 2

Table 6.--Rangeland and woodland understory productivity and characteristic plant communities--Continued

Map symbol and soil name	Ecological site	Total production		Characteristic native vegetation	Composition	
		Kind of year	Dry weight		Forest	Range-land
			lb/acre		Pct.	Pct.
51: Hourglass-----	Subalpine Loam	Favorable	3,500	Thurber's fescue		30
		Normal	2,800	mountain brome		10
		Unfavorable	2,000	Letterman's needlegrass		10
				American vetch		5
				bluegrass		5
				Parry's danthonia		5
				spike trisetum		5
				slender cinquefoil		3
				Richardson's geranium		3
				quaking aspen		3
				mountain snowberry		3
				Nevada pea		2
52: Ohwiler-----	Loamy Park	Favorable	2,500	Arizona fescue		25
		Normal	1,800	Parry's danthonia		15
		Unfavorable	1,000	needleandthread		10
				western wheatgrass		10
				mountain brome		5
				prairie Junegrass		5
				mountain muhly		5
				Gambel's oak		5
				Utah serviceberry		5
				antelope bitterbrush		3
				common snowberry		3
53: Cryaquolls-----	Mountain Meadow	Favorable	4,000	tufted hairgrass		40
		Normal	3,700	sedge		20
		Unfavorable	2,500	slender wheatgrass		15
				Baltic rush		5
				shrubby cinquefoil		5
				willow		5
				California false hellebore		5
Typic Cryaquents	Mountain Meadow	Favorable	4,000	tufted hairgrass		35
		Normal	3,000	slender wheatgrass		20
		Unfavorable	2,000	sedge		10
				willow		10
				Rocky Mountain iris		5
				narrowleaf cottonwood		5
				cinquefoil		5
54: Quazar-----	Subalpine Loam	Favorable	3,000	Thurber's fescue		35
		Normal	2,400	bluegrass		10
		Unfavorable	1,700	needlegrass		10
				Arizona fescue		10
				nodding brome		5
				mountain brome		5
				sedge		5
				western wheatgrass		5
				American vetch		5
56: Typic Cryaquents	Alpine Meadow	Favorable	3,500	ovalleaf willow		30
		Normal	2,800	tufted hairgrass		20
		Unfavorable	2,200	sedge		20
				Parry's clover		10
				alpine fescue		5
				alpine timothy		5
				white marshmarigold		5
Cryaquolls-----	Alpine Meadow	Favorable	4,000	tufted hairgrass		25
		Normal	3,700	sedge		20
		Unfavorable	2,500	ovalleaf willow		15
				bluegrass		15
				Baltic rush		5
				shrubby cinquefoil		5
				California false hellebore		5
Cryofibrists----	Alpine Meadow	Favorable	3,000	showy sedge		20
		Normal	2,800	black sedge		20
		Unfavorable	2,400	tufted hairgrass		15
				ovalleaf willow		15
				alpine timothy		10
				spike trisetum		5

Table 6.--Rangeland and woodland understory productivity and characteristic plant communities--Continued

Map symbol and soil name	Ecological site	Total production		Characteristic native vegetation	Composition	
		Kind of year	Dry weight		Forest	Range- land
			Lb/acre		Pct.	Pct.
57: Howardsville----	Shallow Subalpine	Favorable	700	Arizona fescue		25
		Normal	600	mountain muhly		15
		Unfavorable	400	sheep fescue		10
				prairie Junegrass		10
				western wheatgrass		10
				needlegrass		10
				Parry's danthonia		10
58: Fughes-----	Brushy Loam	Favorable	3,000	Gambel's oak		15
		Normal	2,000	common snowberry		10
		Unfavorable	1,500	needlegrass		10
				Arizona fescue		10
				mountain brome		10
				Saskatoon serviceberry		5
				slender wheatgrass		5
				prairie Junegrass		5
				mountain muhly		5
				western wheatgrass		5
				bluegrass		5
Herm-----	Brushy Loam	Favorable	2,500	Gambel's oak		20
		Normal	1,800	Saskatoon serviceberry		10
		Unfavorable	1,400	mountain brome		10
				Arizona fescue		10
				common snowberry		10
				western wheatgrass		10
				bluegrass		5
				prairie Junegrass		5
				elk sedge		5
59: Fughes-----	Brushy Loam	Favorable	3,000	Gambel's oak		15
		Normal	2,000	common snowberry		10
		Unfavorable	1,500	Arizona fescue		10
				mountain brome		10
				bluegrass		10
				needlegrass		10
				western wheatgrass		5
				slender wheatgrass		5
				elk sedge		5
				Saskatoon serviceberry		5
Herm-----	Brushy Loam	Favorable	2,500	Gambel's oak		20
		Normal	1,800	common snowberry		10
		Unfavorable	1,400	Arizona fescue		10
				mountain brome		10
				western wheatgrass		10
				needlegrass		5
				bluegrass		5
				prairie Junegrass		5
				Saskatoon serviceberry		5
60: Grimes-----	Ponderosa Pine	Favorable	300	Arizona fescue	15	
		Normal	250	western wheatgrass	15	
		Unfavorable	200	mountain brome	15	
				bluegrass	10	
				pine dropseed	10	
				prairie Junegrass	5	
				elk sedge	5	
				Saskatoon serviceberry	5	
				willow	5	
				rose	5	
110: Sheek-----	Pinyon-Juniper	Favorable	1,200	Gambel's oak	15	
		Normal	950	true mountain mahogany	15	
		Unfavorable	700	muttongrass	10	
				prairie Junegrass	10	
				Indian ricegrass	5	
				Utah serviceberry	5	
				bottlebrush squirreltail	5	
				black sagebrush	5	
				squaw apple	5	

Table 6.--Rangeland and woodland understory productivity and characteristic plant communities--Continued

Map symbol and soil name	Ecological site	Total production		Characteristic native vegetation	Composition	
		Kind of year	Dry weight		Forest	Range- land
			Lb/acre		Pct.	Pct.
110: Ormiston-----	Pinyon-Juniper	Favorable	1,200	Gambel's oak	15	
		Normal	1,000	western wheatgrass	15	
		Unfavorable	700	prairie Junegrass	15	
				muttongrass	10	
				blue grama	10	
				Indian ricegrass	5	
				Utah serviceberry	5	
				mountain muhly	5	
				black sagebrush	5	
111: Fardraw-----	Brushy Loam	Favorable	3,200	Gambel's oak		25
		Normal	2,200	mountain brome		10
		Unfavorable	1,600	Arizona fescue		10
				muttongrass		10
				mountain snowberry		10
				elk sedge		5
				needleandthread		5
				ring muhly		5
				Kentucky bluegrass		5
113: Dolores-----	Brushy Loam	Favorable	2,500	Gambel's oak		20
		Normal	2,000	common snowberry		15
		Unfavorable	1,700	Arizona fescue		15
				mountain brome		10
				needlegrass		10
				bluegrass		10
				western wheatgrass		5
				prairie Junegrass		5
				Utah serviceberry		5
150: Silex-----	Engelmann's Spruce-Subalpine Fir	Favorable	600	Thurber's fescue	15	
		Normal	500	mountain brome	15	
		Unfavorable	400	whortleberry	10	
				Kentucky bluegrass	10	
				Columbia needlegrass	5	
				elk sedge	5	
				timber oatgrass	5	
				tufted hairgrass	5	
				whitestem gooseberry	5	
				spike trisetum	5	
Rock outcrop----	---	Favorable	---			
		Normal	---			
		Unfavorable	---			
151: Frisco-----	Engelmann's Spruce-Subalpine Fir	Favorable	800	whortleberry	15	
		Normal	700	mountain snowberry	15	
		Unfavorable	600	nodding brome	15	
				bluegrass	10	
				Thurber's fescue	5	
				Arizona fescue	5	
				elk sedge	5	
				Parry's danthonia	5	
				gooseberry currant	5	
				creeping juniper	5	
152: Frisco-----	Engelmann's Spruce-Subalpine Fir	Favorable	800	whortleberry	15	
		Normal	700	mountain snowberry	15	
		Unfavorable	600	nodding brome	15	
				bluegrass	10	
				Thurber's fescue	5	
				Arizona fescue	5	
				elk sedge	5	
				Parry's danthonia	5	
				gooseberry currant	5	
				creeping juniper	5	
153: Frisco-----	Engelmann's Spruce-Subalpine Fir	Favorable	800	whortleberry	15	
		Normal	700	mountain snowberry	15	
		Unfavorable	600	nodding brome	15	
				bluegrass	10	
				Thurber's fescue	5	
				Arizona fescue	5	
				elk sedge	5	
				Parry's danthonia	5	
				creeping juniper	5	

Table 6.--Rangeland and woodland understory productivity and characteristic plant communities--Continued

Map symbol and soil name	Ecological site	Total production		Characteristic native vegetation	Composition	
		Kind of year	Dry weight		Forest	Range-land
			Lb/acre			
153: Horsethief-----	Engelmann's Spruce-Subalpine Fir	Favorable	1,000	whortleberry	15	
		Normal	800	mountain brome	15	
		Unfavorable	650	Thurber's fescue	15	
				bluegrass	10	
				mountain snowberry	10	
				elk sedge	5	
				spike trisetum	5	
				elderberry	5	
154: Frisco-----	Engelmann's Spruce-Subalpine Fir	Favorable	800	whortleberry	15	
		Normal	700	mountain snowberry	15	
		Unfavorable	600	nodding brome	15	
				bluegrass	10	
				Thurber's fescue	5	
				Arizona fescue	5	
				elk sedge	5	
				Parry's danthonia	5	
				gooseberry currant	5	
			creeping juniper	5		
Horsethief-----	Engelmann's Spruce-Subalpine Fir	Favorable	1,000	whortleberry	15	
		Normal	800	mountain brome	15	
		Unfavorable	650	Thurber's fescue	15	
				bluegrass	10	
				mountain snowberry	10	
				elk sedge	5	
				spike trisetum	5	
				elderberry	5	
155: Tuckerville-----	Engelmann's Spruce-Subalpine Fir	Favorable	1,000	Thurber's fescue	10	
		Normal	800	mountain brome	10	
		Unfavorable	650	elk sedge	10	
				spike trisetum	10	
				bluegrass	10	
				Arizona fescue	5	
				prairie Junegrass	5	
				common snowberry	5	
				Saskatoon serviceberry	5	
			russet buffaloberry	5		
			boxleaf myrtle	5		
			common juniper	5		
Rock outcrop----	---	Favorable	---			
		Normal	---			
		Unfavorable	---			
156: Sponsor-----	Aspen Woodland	Favorable	2,700	Thurber's fescue	25	
		Normal	2,100	mountain brome	10	
		Unfavorable	1,500	common snowberry	10	
				bluegrass	10	
				western wheatgrass	10	
				Nevada pea	10	
				elk sedge	5	
				spike trisetum	5	
				russet buffaloberry	5	
Tuckerville-----	Mixed Conifer	Favorable	1,000	mountain brome	15	
		Normal	800	elk sedge	15	
		Unfavorable	650	Thurber's fescue	10	
				bluegrass	10	
				spike trisetum	10	
				needlegrass	10	
				common snowberry	5	
				russet buffaloberry	5	
157: Sponsor-----	Aspen Woodland	Favorable	2,700	Thurber's fescue	25	
		Normal	2,100	mountain brome	10	
		Unfavorable	1,500	common snowberry	10	
				bluegrass	10	
				western wheatgrass	10	
				Nevada pea	10	
				elk sedge	5	
				spike trisetum	5	
				russet buffaloberry	5	

Table 6.--Rangeland and woodland understory productivity and characteristic plant communities--Continued

Map symbol and soil name	Ecological site	Total production		Characteristic native vegetation	Composition	
		Kind of year	Dry weight		Forest	Range-land
			lb/acre		Pct.	Pct.
157: Tuckerville-----	Mixed Conifer	Favorable	1,000	mountain brome	15	
		Normal	800	elk sedge	15	
		Unfavorable	650	Thurber's fescue	10	
				bluegrass	10	
				spike trisetum	10	
				needlegrass	10	
				common snowberry	5	
				russet buffaloberry	5	
158: Sponsor-----	Aspen Woodland	Favorable	2,700	Thurber's fescue	25	
		Normal	2,100	mountain brome	10	
		Unfavorable	1,500	common snowberry	10	
				bluegrass	10	
				western wheatgrass	10	
				Nevada pea	10	
				elk sedge	5	
				spike trisetum	5	
russet buffaloberry	5					
Tuckerville-----	Mixed Conifer	Favorable	1,000	mountain brome	15	
		Normal	800	elk sedge	15	
		Unfavorable	650	Thurber's fescue	10	
				bluegrass	10	
				spike trisetum	10	
				needlegrass	10	
				common snowberry	5	
				russet buffaloberry	5	
159: Tuckerville-----	Mixed Conifer	Favorable	1,000	Thurber's fescue	10	
		Normal	800	nodding brome	10	
		Unfavorable	650	elk sedge	10	
				spike trisetum	10	
				bluegrass	10	
				Arizona fescue	5	
				prairie Junegrass	5	
				common snowberry	5	
				Saskatoon serviceberry	5	
				russet buffaloberry	5	
				boxleaf myrtle	5	
				common juniper	5	
				160: Anvik-----	Mixed Conifer	Favorable	1,500	Thurber's fescue	20
Normal	1,000	mountain brome	15			
Unfavorable	500	elk sedge	15			
		Arizona fescue	10			
		bluegrass	10			
		common snowberry	10			
		spike trisetum	5			
Oregongrape	5					
Tuckerville-----	Engelmann's Spruce-Subalpine Fir	Favorable	1,000	Thurber's fescue	15	
		Normal	800	mountain brome	15	
		Unfavorable	650	elk sedge	10	
				spike trisetum	10	
				bluegrass	10	
				Arizona fescue	5	
				prairie Junegrass	5	
				common snowberry	5	
Oregongrape	5					
common juniper	5					
161: Needleton-----	Engelmann's Spruce-Subalpine Fir	Favorable	1,000	whortleberry	20	
		Normal	800	Thurber's fescue	15	
		Unfavorable	600	mountain brome	10	
				bluegrass	10	
				Richardson's geranium	10	
				elk sedge	5	
				snowberry	5	
				spike trisetum	5	
				common juniper	5	

Table 6.--Rangeland and woodland understory productivity and characteristic plant communities--Continued

Map symbol and soil name	Ecological site	Total production		Characteristic native vegetation	Composition	
		Kind of year	Dry weight		Forest	Range- land
			Lb/acre			
162: Quazar-----	Subalpine Loam	Favorable Normal Unfavorable	3,000 2,400 1,700	Thurber's fescue Parry's danthonia Letterman's needlegrass nodding brome bluegrass elk sedge Arizona fescue		40 15 10 10 5 5 5
Varden-----	Subalpine Loam	Favorable Normal Unfavorable	3,000 2,400 1,700	Thurber's fescue Parry's danthonia Letterman's needlegrass nodding brome elk sedge Arizona fescue slender wheatgrass American vetch quaking aspen		30 15 10 10 5 5 5 5 5
163: Clayburn-----	Aspen Woodland	Favorable Normal Unfavorable	3,500 3,000 2,500	snowberry bluegrass Thurber's fescue mountain brome Fendler's meadowrue elk sedge Richardson's geranium American vetch	20 15 15 10 10 5 5 5	
Hourglass-----	Aspen Woodland	Favorable Normal Unfavorable	3,800 3,000 2,500	snowberry bluegrass Thurber's fescue mountain brome Fendler's meadowrue elk sedge American vetch Richardson's geranium	20 15 15 10 10 5 5 5	
164: Hourglass-----	Aspen Woodland	Favorable Normal Unfavorable	3,800 3,000 2,500	snowberry Thurber's fescue bluegrass mountain brome Fendler's meadowrue elk sedge American vetch	20 15 15 10 10 5 5	
Bucklon-----	Aspen Woodland	Favorable Normal Unfavorable	2,000 1,200 750	Thurber's fescue bluegrass snowberry western wheatgrass mountain brome Fendler's meadowrue shrubby cinquefoil	25 15 15 15 10 5 5	
Wander-----	Aspen Woodland	Favorable Normal Unfavorable	2,600 2,200 1,800	snowberry Thurber's fescue mountain brome Fendler's meadowrue American vetch bluegrass elk sedge	30 15 10 10 10 5 5	
165: Pinacol-----	Ponderosa Pine	Favorable Normal Unfavorable	1,400 1,100 900	Arizona fescue mountain brome Gambel's oak bluegrass prairie Junegrass mountain muhly western wheatgrass elk sedge snowberry Saskatoon serviceberry true mountain mahogany	20 10 10 10 10 5 5 5 5 5 5	

Table 6.--Rangeland and woodland understory productivity and characteristic plant communities--Continued

Map symbol and soil name	Ecological site	Total production		Characteristic native vegetation	Composition	
		Kind of year	Dry weight		Forest	Range- land
			Lb/acre		Pct.	Pct.
166: Pinacol-----	Ponderosa Pine	Favorable	1,400	Arizona fescue	20	
		Normal	1,100	mountain brome	10	
		Unfavorable	900	Gambel's oak	10	
				bluegrass	10	
				prairie Junegrass	10	
				mountain muhly	5	
				western wheatgrass	5	
				elk sedge	5	
				snowberry	5	
				Saskatoon serviceberry	5	
				true mountain mahogany	5	
250: Snowdon-----	Engelmann's Spruce-Subalpine Fir	Favorable	600	common juniper	15	
		Normal	500	mountain snowberry	15	
		Unfavorable	400	Thurber's fescue	10	
				mountain brome	10	
				bluegrass	10	
				whortleberry	10	
				elk sedge	5	
				spike trisetum	5	
Rock outcrop----	---	Favorable	---			
		Normal	---			
		Unfavorable	---			
251: Rock outcrop----	---	Favorable	---			
		Normal	---			
		Unfavorable	---			
Snowdon-----	Engelmann's Spruce-Subalpine Fir	Favorable	600	common juniper	15	
		Normal	500	mountain snowberry	15	
		Unfavorable	400	Thurber's fescue	10	
				mountain brome	10	
				bluegrass	10	
				whortleberry	10	
				elk sedge	5	
				spike trisetum	5	
254: Typic Cryorthents----	---	Favorable	400	Thurber's fescue	25	
		Normal	350	bluegrass	15	
		Unfavorable	300	Arizona fescue	15	
				mountain brome	10	
				willow	10	
Rubble land-----	---	Favorable	---			
		Normal	---			
		Unfavorable	---			
330: Needleton-----	Engelmann's Spruce-Subalpine Fir	Favorable	1,000	whortleberry	20	
		Normal	800	Thurber's fescue	15	
		Unfavorable	600	mountain brome	10	
				bluegrass	10	
				Richardson's geranium	10	
				elk sedge	5	
				snowberry	5	
				spike trisetum	5	
				common juniper	5	
331: Needleton-----	Engelmann's Spruce-Subalpine Fir	Favorable	1,000	whortleberry	20	
		Normal	800	Thurber's fescue	15	
		Unfavorable	600	mountain brome	10	
				bluegrass	10	
				Richardson's geranium	10	
				elk sedge	5	
				snowberry	5	
				spike trisetum	5	
				common juniper	5	
332: Horsethief-----	Engelmann's Spruce-Subalpine Fir	Favorable	1,800	whortleberry	15	
		Normal	1,650	bluegrass	15	
		Unfavorable	1,500	Thurber's fescue	15	
				mountain brome	10	
				snowberry	10	
				gooseberry currant	10	
				elk sedge	5	
				spike trisetum	5	

Table 6.--Rangeland and woodland understory productivity and characteristic plant communities--Continued

Map symbol and soil name	Ecological site	Total production		Characteristic native vegetation	Composition	
		Kind of year	Dry weight		Forest	Range-land
			Lb/acre		Pct.	Pct.
332: Needleton-----	Engelmann's Spruce-Subalpine Fir	Favorable	1,000	whortleberry	20	
		Normal	800	Thurber's fescue	15	
		Unfavorable	600	mountain brome	10	
				elk sedge	10	
				Richardson's geranium	10	
				bluegrass	10	
				snowberry	5	
				heartleaf arnica	5	
				spike trisetum	5	
333: Henson-----	Warm Alpine	Favorable	3,400	Thurber's fescue		35
		Normal	3,000	sedge		10
		Unfavorable	2,700	alpine fescue		5
				tufted hairgrass		5
				Baker's wheatgrass		5
				spreading wheatgrass		5
				Ross' avens		5
				alpine bluegrass		5
				American bistort		5
				willow		5
				spike trisetum		5
334: Henson-----	Warm Alpine	Favorable	3,200	Thurber's fescue		35
		Normal	2,800	sedge		10
		Unfavorable	2,500	alpine fescue		10
				tufted hairgrass		5
				Baker's wheatgrass		5
				spreading wheatgrass		5
				Ross' avens		5
				alpine bluegrass		5
				American bistort		5
				spike trisetum		5
335: Whitecross-----	Shallow Alpine	Favorable	1,200	kobresia		30
		Normal	800	Ross' avens		15
		Unfavorable	500	alpine bluegrass		10
				tufted hairgrass		8
				timber oatgrass		5
				alpine fescue		5
				Baker's wheatgrass		5
				alpine timothy		5
				American bistort		5
				sedge		5
Rock outcrop----	---	Favorable	---			
		Normal	---			
		Unfavorable	---			
336: Whitecross-----	Warm Alpine	Favorable	2,500	Thurber's fescue		35
		Normal	2,100	alpine bluegrass		10
		Unfavorable	1,900	sedge		10
				timber oatgrass		5
				alpine fescue		5
				Ross' avens		5
				tufted hairgrass		5
				Baker's wheatgrass		5
				American bistort		5
				spike trisetum		5
Rock outcrop----	---	Favorable	---			
		Normal	---			
		Unfavorable	---			
337: Whitecross-----	Shallow Alpine	Favorable	1,200	kobresia		30
		Normal	800	Ross' avens		15
		Unfavorable	500	alpine bluegrass		10
				tufted hairgrass		8
				timber oatgrass		5
				alpine fescue		5
				Baker's wheatgrass		5
				alpine timothy		5
				American bistort		5
				sedge		5
Rock outcrop----	---	Favorable	---			
		Normal	---			
		Unfavorable	---			

Table 6.--Rangeland and woodland understory productivity and characteristic plant communities--Continued

Map symbol and soil name	Ecological site	Total production		Characteristic native vegetation	Composition	
		Kind of year	Dry weight		Forest	Range- land
			<u>lb/acre</u>		<u>Pct.</u>	<u>Pct.</u>
338: Henson-----	Alpine Slopes	Favorable	2,500	kobresia		25
		Normal	2,000	Ross' avens		15
		Unfavorable	1,500	alpine fescue		10
				tufted hairgrass		10
				alpine bluegrass		5
				alpine timothy		5
				Baker's wheatgrass		5
				slender cinquefoil		5
				sedge		5
				American bistort		5
				spike trisetum		5
339: Henson-----	Alpine Slopes	Favorable	2,300	kobresia		20
		Normal	1,600	Ross' avens		15
		Unfavorable	1,400	alpine fescue		10
				tufted hairgrass		10
				alpine bluegrass		5
				alpine timothy		5
				Baker's wheatgrass		5
				slender cinquefoil		5
				sedge		5
				American bistort		5
				spike trisetum		5
340: Moran-----	Alpine Slopes	Favorable	2,500	kobresia		25
		Normal	2,200	Ross' avens		15
		Unfavorable	1,500	sedge		10
				alpine fescue		5
				alpine bluegrass		5
				tufted hairgrass		5
				Baker's wheatgrass		5
				alpine timothy		5
				slender cinquefoil		5
				American bistort		5
				spike trisetum		5
341: Moran-----	Alpine Slopes	Favorable	2,500	kobresia		25
		Normal	2,000	Ross' avens		15
		Unfavorable	1,500	sedge		10
				alpine fescue		5
				alpine bluegrass		5
				tufted hairgrass		5
				Baker's wheatgrass		5
				alpine timothy		5
				slender cinquefoil		5
				American bistort		5
				spike trisetum		5
342: Telluride-----	Shallow Alpine	Favorable	1,500	kobresia		25
		Normal	1,200	Ross' avens		15
		Unfavorable	1,000	sedge		10
				tufted hairgrass		10
				alpine fescue		5
				alpine bluegrass		5
				Baker's wheatgrass		5
				alpine timothy		5
				slender cinquefoil		5
				American bistort		5
				spike trisetum		2
Rock outcrop----	---	Favorable	---			
		Normal	---			
		Unfavorable	---			
343: Telluride-----	Shallow Alpine	Favorable	1,500	kobresia		25
		Normal	1,200	Ross' avens		15
		Unfavorable	1,000	sedge		10
				tufted hairgrass		10
				alpine fescue		5
				alpine bluegrass		5
				Baker's wheatgrass		5
				alpine timothy		5
				slender cinquefoil		5
				American bistort		5
				spike trisetum		2

Table 6.--Rangeland and woodland understory productivity and characteristic plant communities--Continued

Map symbol and soil name	Ecological site	Total production		Characteristic native vegetation	Composition	
		Kind of year	Dry weight		Forest	Range- land
			Lb/acre		Pct.	Pct.
343: Rock outcrop----	---	Favorable Normal Unfavorable	--- --- ---			
345: Papaspila-----	Subalpine Loam	Favorable Normal Unfavorable	3,500 3,000 2,500	Thurber's fescue mountain brome Lettermann's needlegrass Kentucky bluegrass American vetch slender cinquefoil shrubby cinquefoil western wheatgrass geranium		20 15 15 10 5 5 5 5 5
350: Flygare-----	Aspen Woodland	Favorable Normal Unfavorable	3,500 3,000 2,000	snowberry nodding brome Thurber's fescue Kentucky bluegrass Columbia needlegrass American vetch geranium	15 15 15 15 10 5 5	
Foidel-----	Aspen Woodland	Favorable Normal Unfavorable	3,500 3,000 2,000	snowberry nodding brome Thurber's fescue Kentucky bluegrass Columbia needlegrass American vetch geranium	15 15 15 15 10 5 5	
355: Flygare-----	Aspen Woodland	Favorable Normal Unfavorable	3,500 3,000 2,000	snowberry nodding brome Thurber's fescue Kentucky bluegrass Columbia needlegrass American vetch geranium	15 15 15 15 10 5 5	
Foidel-----	Aspen Woodland	Favorable Normal Unfavorable	3,500 3,000 2,000	snowberry nodding brome Thurber's fescue Kentucky bluegrass Columbia needlegrass American vetch geranium	15 15 15 15 10 5 5	
360: Blacksnag-----	Engelmann's Spruce-Subalpine Fir	Favorable Normal Unfavorable	1,200 800 500	whortleberry nodding brome Kentucky bluegrass alpine timothy slender wheatgrass elderberry snowberry Richardson's geranium aster Columbian monkshood	15 15 10 10 10 5 5 5 5 5	
Peeler-----	Engelmann's Spruce-Subalpine Fir	Favorable Normal Unfavorable	800 700 600	Kentucky bluegrass whortleberry nodding brome sheep fescue heartleaf arnica Richardson's geranium gooseberry currant elderberry aster	20 15 10 10 10 5 5 5 5	
361: Blacksnag-----	Engelmann's Spruce-Subalpine Fir	Favorable Normal Unfavorable	1,200 800 500	whortleberry nodding brome Kentucky bluegrass alpine timothy slender wheatgrass elderberry snowberry Richardson's geranium aster Columbian monkshood	15 15 10 10 10 5 5 5 5 5	

Table 6.--Rangeland and woodland understory productivity and characteristic plant communities--Continued

Map symbol and soil name	Ecological site	Total production		Characteristic native vegetation	Composition	
		Kind of year	Dry weight		Forest	Range- land
			Lb/acre		Pct.	Pct.
361: Peeler-----	Engelmann's Spruce-Subalpine Fir	Favorable	800	Kentucky bluegrass	20	
		Normal	700	whortleberry	15	
		Unfavorable	600	nodding brome	10	
				sheep fescue	10	
				heartleaf arnica	10	
				Richardson's geranium	5	
				gooseberry currant	5	
				elderberry	5	
				aster	5	
374: Mavreeso-----	Ponderosa Pine	Favorable	1,000	Gambel's oak	20	
		Normal	750	Kentucky bluegrass	10	
		Unfavorable	400	mountain brome	10	
				elk sedge	10	
				Arizona fescue	10	
				prairie Junegrass	5	
				Parry's danthonia	5	
				common snowberry	5	
				slender cinquefoil	5	
				Oregongrape	5	
Valto-----	Ponderosa Pine	Favorable	600	Arizona fescue	10	
		Normal	500	mountain brome	10	
		Unfavorable	400	mountain muhly	10	
				prairie Junegrass	10	
				bluegrass	10	
				Gambel's oak	10	
				elk sedge	5	
				common snowberry	5	
				Saskatoon serviceberry	5	
				meadowrue	5	
Rock outcrop----	---	Favorable	---			
		Normal	---			
		Unfavorable	---			
375: Needleton-----	Engelmann's Spruce-Subalpine Fir	Favorable	1,000	whortleberry	20	
		Normal	800	Thurber's fescue	15	
		Unfavorable	600	mountain brome	10	
				bluegrass	10	
				Richardson's geranium	10	
				heartleaf arnica	5	
				sedge	5	
				snowberry	5	
				spike trisetum	5	
Snowdon-----	Engelmann's Spruce-Subalpine Fir	Favorable	600	whortleberry	20	
		Normal	500	Thurber's fescue	10	
		Unfavorable	400	mountain brome	10	
				bluegrass	10	
				snowberry	10	
				sedge	5	
				Richardson's geranium	5	
				smallflowered woodrush	5	
				spike trisetum	5	
376: Needleton-----	Engelmann's Spruce-Subalpine Fir	Favorable	1,000	whortleberry	20	
		Normal	800	Thurber's fescue	15	
		Unfavorable	600	mountain brome	10	
				bluegrass	10	
				Richardson's geranium	10	
				heartleaf arnica	5	
				sedge	5	
				smallflowered woodrush	5	
				snowberry	5	
				spike trisetum	5	
378: Needleton-----	Engelmann's Spruce-Subalpine Fir	Favorable	1,000	whortleberry	20	
		Normal	800	Thurber's fescue	15	
		Unfavorable	600	mountain brome	10	
				bluegrass	10	
				Richardson's geranium	10	
				heartleaf arnica	5	
				sedge	5	
				snowberry	5	
				spike trisetum	5	

Table 6.--Rangeland and woodland understory productivity and characteristic plant communities--Continued

Map symbol and soil name	Ecological site	Total production		Characteristic native vegetation	Composition	
		Kind of year	Dry weight		Forest	Range- land
			Lb/acre		Pct.	Pct.
378: Haviland-----	Engelmann's Spruce-Subalpine Fir	Favorable	1,200	whortleberry	20	
		Normal	900	Thurber's fescue	15	
		Unfavorable	700	mountain brome	10	
				bluegrass	10	
				Richardson's geranium	10	
				heartleaf arnica	5	
				sedge	5	
				snowberry	5	
				spike trisetum	5	
				smallflowered woodrush	5	
380: Snowdon-----	Engelmann's Spruce-Subalpine Fir	Favorable	600	whortleberry	20	
		Normal	500	Thurber's fescue	15	
		Unfavorable	400	mountain brome	10	
				bluegrass	10	
				sedge	10	
				Richardson's geranium	5	
				spike trisetum	5	
				smallflowered woodrush	5	
Rock outcrop----	---	Favorable	---			
		Normal	---			
		Unfavorable	---			
381: Needleton-----	Engelmann's Spruce-Subalpine Fir	Favorable	1,000	whortleberry	20	
		Normal	800	snowberry	15	
		Unfavorable	600	mountain brome	10	
				Thurber's fescue	10	
				bluegrass	10	
				Richardson's geranium	10	
				sedge	5	
				heartleaf arnica	5	
				spike trisetum	5	
Snowdon-----	Engelmann's Spruce-Subalpine Fir	Favorable	600	whortleberry	20	
		Normal	500	snowberry	15	
		Unfavorable	400	Thurber's fescue	10	
				mountain brome	10	
				bluegrass	10	
				sedge	10	
				Richardson's geranium	5	
				smallflowered woodrush	5	
Rock outcrop----	---	Favorable	---			
		Normal	---			
		Unfavorable	---			
382: Needleton-----	Engelmann's Spruce-Subalpine Fir	Favorable	1,000	whortleberry	20	
		Normal	800	Thurber's fescue	15	
		Unfavorable	600	mountain brome	10	
				bluegrass	10	
				Richardson's geranium	10	
				heartleaf arnica	5	
				sedge	5	
				snowberry	5	
				spike trisetum	5	
				smallflowered woodrush	5	
Snowdon-----	Engelmann's Spruce-Subalpine Fir	Favorable	600	whortleberry	20	
		Normal	500	Thurber's fescue	10	
		Unfavorable	400	mountain brome	10	
				bluegrass	10	
				snowberry	10	
				sedge	5	
				Richardson's geranium	5	
				smallflowered woodrush	5	
				spike trisetum	5	
383: Haviland-----	Engelmann's Spruce-Subalpine Fir	Favorable	1,200	whortleberry	20	
		Normal	900	Thurber's fescue	15	
		Unfavorable	700	mountain brome	10	
				bluegrass	10	
				Richardson's geranium	10	
				heartleaf arnica	5	
				sedge	5	
				snowberry	5	
				spike trisetum	5	
				smallflowered woodrush	5	

Table 6.--Rangeland and woodland understory productivity and characteristic plant communities--Continued

Map symbol and soil name	Ecological site	Total production		Characteristic native vegetation	Composition	
		Kind of year	Dry weight		Forest	Range-land
			Lb/acre		Pct.	Pct.
383: Needleton-----	Engelmann's Spruce-Subalpine Fir	Favorable Normal Unfavorable	1,000 800 600	whortleberry Thurber's fescue mountain brome bluegrass Richardson's geranium heartleaf arnica sedge snowberry spike trisetum	20 15 10 10 10 5 5 5 5	
386: Needleton-----	Engelmann's Spruce-Subalpine Fir	Favorable Normal Unfavorable	1,000 800 600	common juniper mountain brome sedge bluegrass Richardson's geranium heartleaf arnica kinnikinnick whortleberry spike trisetum	15 15 10 10 10 10 5 5 5	
387: Frisco-----	Engelmann's Spruce-Subalpine Fir	Favorable Normal Unfavorable	800 700 600	whortleberry snowberry mountain brome Thurber's fescue sedge bluegrass Nevada pea	15 15 15 15 10 10 5	
Quazar-----	Subalpine Loam	Favorable Normal Unfavorable	3,000 2,400 1,700	Thurber's fescue mountain brome bluegrass needlegrass American vetch sedge meadowrue		30 15 10 10 10 5 5
388: Frisco-----	Engelmann's Spruce-Subalpine Fir	Favorable Normal Unfavorable	800 700 600	whortleberry snowberry mountain brome Thurber's fescue sedge bluegrass Nevada pea heartleaf arnica gooseberry currant	15 15 15 10 10 10 5 5 5	
Quazar-----	Subalpine Loam	Favorable Normal Unfavorable	3,000 2,400 1,700	Thurber's fescue mountain brome bluegrass needlegrass American vetch sedge meadowrue		30 15 10 10 10 5 5
389: Seitz-----	Engelmann's Spruce-Subalpine Fir	Favorable Normal Unfavorable	500 350 250	whortleberry mountain brome slender wheatgrass heartleaf arnica gooseberry currant common juniper sedge Richardson's geranium smallflowered woodrush	15 15 15 10 10 10 5 5 5	
390: Clayburn-----	Subalpine Loam	Favorable Normal Unfavorable	3,500 2,800 2,000	Thurber's fescue mountain brome bluegrass American vetch Letterman's needlegrass slender wheatgrass Parry's danthonia snowberry		35 15 10 10 5 5 5 5

Table 6.--Rangeland and woodland understory productivity and characteristic plant communities--Continued

Map symbol and soil name	Ecological site	Total production		Characteristic native vegetation	Composition		
		Kind of year	Dry weight		Forest	Range-land	
			Lb/acre				
390: Heisspitz-----	Subalpine Loam	Favorable	3,000	Thurber's fescue		40	
		Normal	2,500	mountain brome		15	
		Unfavorable	2,000	Letterman's needlegrass		10	
				nodding brome		5	
				bluegrass		5	
				Parry's danthonia		5	
				slender wheatgrass		5	
391: Runlett-----		Subalpine Loam	Favorable	3,000	Thurber's fescue		30
			Normal	2,500	mountain brome		10
			Unfavorable	1,800	American vetch		10
				Letterman's needlegrass		10	
				Kentucky bluegrass		5	
				slender wheatgrass		5	
				elk sedge		5	
				slender cinquefoil		5	
				whitestem gooseberry		5	
Sessions-----	Subalpine Loam		Favorable	3,500	Thurber's fescue		35
		Normal	2,800	nodding brome		15	
		Unfavorable	2,000	Parry's danthonia		10	
				Letterman's needlegrass		5	
				Kentucky bluegrass		5	
				elk sedge		5	
				Richardson's geranium		5	
				slender cinquefoil		5	
392: Runlett-----		Subalpine Loam	Favorable	3,000	Thurber's fescue		30
			Normal	2,500	mountain brome		10
	Unfavorable		1,800	American vetch		10	
				Letterman's needlegrass		10	
				Kentucky bluegrass		5	
				slender wheatgrass		5	
				elk sedge		5	
				slender cinquefoil		5	
				whitestem gooseberry		5	
Needleton-----	Engelmann's Spruce-Subalpine Fir		Favorable	1,000	whortleberry	20	
		Normal	800	Kentucky bluegrass	10		
		Unfavorable	600	snowberry	10		
				Richardson's geranium	10		
				elk sedge	10		
				heartleaf arnica	10		
				Thurber's fescue	5		
				mountain brome	5		
Sessions-----		Subalpine Loam	Favorable	3,500	Thurber's fescue		35
			Normal	2,800	nodding brome		15
	Unfavorable		2,000	Parry's danthonia		10	
				Letterman's needlegrass		5	
				Kentucky bluegrass		5	
				elk sedge		5	
				Richardson's geranium		5	
				slender cinquefoil		5	
393: Heisspitz-----	Subalpine Loam		Favorable	3,000	Thurber's fescue		40
			Normal	2,500	mountain brome		15
		Unfavorable	2,000	Letterman's needlegrass		10	
				nodding brome		5	
				Kentucky bluegrass		5	
				Parry's danthonia		5	
				slender wheatgrass		5	
Sessions-----		Subalpine Loam	Favorable	3,500	Thurber's fescue		35
			Normal	2,800	nodding brome		10
			Unfavorable	2,000	mountain brome		10
				Parry's danthonia		5	
				Letterman's needlegrass		5	
				Kentucky bluegrass		5	
				elk sedge		5	
				Richardson's geranium		5	
				slender cinquefoil		5	
Rock outcrop----	---		Favorable	---			
		Normal	---				
		Unfavorable	---				

Table 6.--Rangeland and woodland understory productivity and characteristic plant communities--Continued

Map symbol and soil name	Ecological site	Total production		Characteristic native vegetation	Composition	
		Kind of year	Dry weight		Forest	Range- land
			Lb/acre		Pct.	Pct.
394: Clayburn-----	Subalpine Loam	Favorable	3,500	Thurber's fescue		35
		Normal	2,800	mountain brome		15
		Unfavorable	2,000	Letterman's needlegrass		10
				American vetch		10
				slender cinquefoil		5
				slender wheatgrass		5
				Parry's danthonia		5
				snowberry		5
Heisspitz-----	Subalpine Loam	Favorable	3,000	Thurber's fescue		40
		Normal	2,500	mountain brome		15
		Unfavorable	2,000	Letterman's needlegrass		10
				nodding brome		5
				bluegrass		5
				Parry's danthonia		5
				slender wheatgrass		5
395: Scout-----	Engelmann's Spruce-Subalpine Fir	Favorable	1,200	whortleberry	20	
		Normal	900	mountain brome	20	
		Unfavorable	600	heartleaf arnica	15	
				sedge	10	
				Richardson's geranium	10	
				wheatgrass	10	
396: Scout-----	Engelmann's Spruce-Subalpine Fir	Favorable	1,200	whortleberry	20	
		Normal	900	mountain brome	20	
		Unfavorable	600	heartleaf arnica	15	
				sedge	10	
				Richardson's geranium	10	
				wheatgrass	10	
399: Kite-----	Shallow Alpine	Favorable	1,000	tufted hairgrass		20
		Normal	900	Ross' avens		15
		Unfavorable	750	alpine fescue		10
				sedge		10
				spreading wheatgrass		10
				kobresia		5
				alpine bluegrass		5
				American bistort		5
Rock outcrop----	---	Favorable	---			
		Normal	---			
		Unfavorable	---			
450: Lostlake-----	Engelmann's Spruce-Subalpine Fir	Favorable	800	whortleberry	15	
		Normal	650	nodding brome	15	
		Unfavorable	500	Thurber's fescue	10	
				bluegrass	10	
				elk sedge	10	
				snowberry	5	
				Woods' rose	5	
				currant	5	
				smallflowered woodrush	5	
Rock outcrop----	---	Favorable	---			
		Normal	---			
		Unfavorable	---			
452: Dystrocryepts---	Shallow Alpine	Favorable	1,400	tufted hairgrass		15
		Normal	1,000	kobresia		15
		Unfavorable	800	Ross' avens		10
				alpine fescue		10
				alpine bluegrass		10
				sedge		10
				Baker's wheatgrass		10
				spreading wheatgrass		5
				American bistort		5
Rock outcrop----	---	Favorable	---			
		Normal	---			
		Unfavorable	---			

Table 6.--Rangeland and woodland understory productivity and characteristic plant communities--Continued

Map symbol and soil name	Ecological site	Total production		Characteristic native vegetation	Composition	
		Kind of year	Dry weight		Forest	Range- land
			Lb/acre		Pct.	Pct.
453: Sig-----	Aspen Woodland	Favorable	1,000	snowberry	15	
		Normal	800	bluegrass	10	
		Unfavorable	700	mountain brome	10	
				nodding brome	10	
				Letterman's needlegrass	10	
				kinnikinnick	5	
				elk sedge	5	
				Oregongrape	5	
				slender cinquefoil	5	
				Fendler's meadowrue	5	
				spike trisetum	5	
Rock outcrop----	---	Favorable	---			
		Normal	---			
		Unfavorable	---			
Snowdon-----	Engelmann's Spruce-Subalpine Fir	Favorable	600	whortleberry	20	
		Normal	500	Thurber's fescue	10	
		Unfavorable	400	mountain brome	10	
				bluegrass	10	
				kinnikinnick	10	
				elk sedge	5	
				Richardson's geranium	5	
				smallflowered woodrush	5	
454: Snowdon-----	Engelmann's Spruce-Subalpine Fir	Favorable	600	whortleberry	20	
		Normal	500	Thurber's fescue	10	
		Unfavorable	400	mountain brome	10	
				Kentucky bluegrass	10	
				kinnikinnick	10	
				elk sedge	5	
				Richardson's geranium	5	
				smallflowered woodrush	5	
Sig-----	Engelmann's Spruce-Subalpine Fir	Favorable	450	whortleberry	15	
		Normal	400	Kentucky bluegrass	10	
		Unfavorable	350	mountain brome	10	
				Letterman's needlegrass	10	
				kinnikinnick	10	
				twinsflower	5	
				elk sedge	5	
				Oregongrape	5	
				snowberry	5	
				spike trisetum	5	
Rock outcrop----	---	Favorable	---			
		Normal	---			
		Unfavorable	---			
493: Badland-----	---	Favorable	---			
		Normal	---			
		Unfavorable	---			
494: Pits, gravel----	---	Favorable	---			
		Normal	---			
		Unfavorable	---			
495: Riverwash-----	---	Favorable	---			
		Normal	---			
		Unfavorable	---			
496: Rock outcrop----	---	Favorable	---			
		Normal	---			
		Unfavorable	---			
497: Rubble land-----	---	Favorable	---			
		Normal	---			
		Unfavorable	---			
498: Slickens-----	---	Favorable	---			
		Normal	---			
		Unfavorable	---			

Table 6.--Rangeland and woodland understory productivity and characteristic plant communities--Continued

Map symbol and soil name	Ecological site	Total production		Characteristic native vegetation	Composition	
		Kind of year	Dry weight		Forest	Range- land
			Lb/acre		Pct.	Pct.
499: Water-----	---	Favorable Normal Unfavorable	--- --- ---			
500: Dolores-----	Ponderosa Pine	Favorable Normal Unfavorable	1,500 1,200 800	Gambel's oak Arizona fescue western wheatgrass mountain muhly prairie Junegrass mountain brome bluegrass common snowberry Utah serviceberry Woods' rose elk sedge	20 15 10 10 10 5 5 5 5 2 2	
Fivepine-----	Ponderosa Pine	Favorable Normal Unfavorable	1,200 800 600	Gambel's oak western wheatgrass pine dropseed bottlebrush squirreltail prairie Junegrass mountain muhly bluegrass common snowberry nodding brome Utah serviceberry	15 15 10 10 10 10 5 5 5 5	
501: Fivepine-----	Ponderosa Pine	Favorable Normal Unfavorable	1,200 800 600	Gambel's oak western wheatgrass pine dropseed bottlebrush squirreltail prairie Junegrass mountain muhly bluegrass common snowberry nodding brome Utah serviceberry	15 15 10 10 10 5 5 5 5 5	
Nortez-----	Ponderosa Pine	Favorable Normal Unfavorable	1,400 1,200 900	Arizona fescue needleandthread Parry's danthonia mountain muhly western wheatgrass mountain big sagebrush mountain brome prairie Junegrass antelope bitterbrush Gambel's oak	25 15 10 10 10 5 5 5 5 5	
503: Ormiston-----	Ponderosa Pine	Favorable Normal Unfavorable	1,500 1,200 800	mountain muhly western wheatgrass prairie Junegrass mountain brome Gambel's oak common snowberry Woods' rose Utah serviceberry bluegrass	20 20 15 10 10 5 5 5 5	
Fivepine-----	Ponderosa Pine	Favorable Normal Unfavorable	1,200 800 600	western wheatgrass Gambel's oak mountain muhly prairie Junegrass bottlebrush squirreltail pine dropseed Rocky Mountain juniper Utah serviceberry nodding brome bluegrass common snowberry	15 15 10 10 10 10 5 5 5 5 5	

Table 6.--Rangeland and woodland understory productivity and characteristic plant communities--Continued

Map symbol and soil name	Ecological site	Total production		Characteristic native vegetation	Composition	
		Kind of year	Dry weight		Forest	Range- land
			Lb/acre		Pct.	Pct.
504: Jemco-----	Ponderosa Pine	Favorable	1,100	Gambel's oak	20	
		Normal	900	Arizona fescue	15	
		Unfavorable	700	mountain brome	10	
				common snowberry	10	
				bottlebrush squirreltail	5	
				Rocky Mountain juniper	5	
				Oregongrape	5	
				mountain muhly	5	
				western wheatgrass	5	
Detra-----	Ponderosa Pine	Favorable	1,600	Gambel's oak	15	
		Normal	1,400	common snowberry	10	
		Unfavorable	1,200	western wheatgrass	10	
				Arizona fescue	10	
				mountain brome	5	
				Saskatoon serviceberry	5	
				Kentucky bluegrass	5	
				prairie Junegrass	5	
				needleandthread	5	
				Oregongrape	5	
Beje-----	Ponderosa Pine	Favorable	2,000	western wheatgrass	15	
		Normal	1,300	prairie Junegrass	15	
		Unfavorable	800	Arizona fescue	15	
				mountain brome	10	
				Gambel's oak	10	
				common snowberry	5	
				Kentucky bluegrass	5	
				Oregongrape	5	
				needleandthread	5	
				black sagebrush	5	
505: Moento-----	Loamy Park	Favorable	2,100	Arizona fescue		20
		Normal	1,500	western wheatgrass		15
		Unfavorable	900	mountain brome		10
				needleandthread		10
				prairie Junegrass		5
				mountain muhly		5
				Kentucky bluegrass		5
				sedge		5
				bottlebrush squirreltail		5
				shrubby cinquefoil		5
mule-ears		3				
common snowberry		3				
506: Moento-----	Loamy Park	Favorable	2,100	Arizona fescue		20
		Normal	1,500	western wheatgrass		15
		Unfavorable	900	mountain brome		10
				needleandthread		10
				prairie Junegrass		10
				Kentucky bluegrass		5
				sedge		5
				bottlebrush squirreltail		5
				shrubby cinquefoil		5
				mule-ears		5
common snowberry		5				
Detra-----	Loamy Park	Favorable	2,100	Gambel's oak		20
		Normal	1,600	common snowberry		15
		Unfavorable	1,000	Arizona fescue		15
				needleandthread		10
				prairie Junegrass		10
				western wheatgrass		5
				mountain brome		5
				mountain muhly		5
				Kentucky bluegrass		3
				mule-ears		3
Jemco-----	Brushy Loam	Favorable	2,500	Arizona fescue		20
		Normal	1,700	mountain brome		15
		Unfavorable	1,100	Gambel's oak		15
				common snowberry		10
				western wheatgrass		10
				mountain muhly		5
				Saskatoon serviceberry		5
				Thurber's fescue		3
				bottlebrush squirreltail		5

Table 6.--Rangeland and woodland understory productivity and characteristic plant communities--Continued

Map symbol and soil name	Ecological site	Total production		Characteristic native vegetation	Composition	
		Kind of year	Dry weight		Forest	Range- land
			<u>Lb/acre</u>			
508: Herm-----	Ponderosa Pine	Favorable	1,600	Arizona fescue	15	
		Normal	1,300	Gambel's oak	15	
		Unfavorable	1,000	western wheatgrass	10	
				mountain muhly	10	
				prairie Junegrass	10	
				true mountain mahogany	5	
				elk sedge	5	
				mountain brome	5	
				Saskatoon serviceberry	5	
				common snowberry	5	
				mule-ears	3	
Pagoda-----	Ponderosa Pine	Favorable	1,400	Gambel's oak	15	
		Normal	1,200	western wheatgrass	15	
		Unfavorable	1,000	Arizona fescue	15	
				prairie Junegrass	10	
				pine dropseed	10	
				Saskatoon serviceberry	5	
				nodding brome	5	
				bottlebrush squirreltail	5	
				mountain muhly	5	
				bluegrass	5	
				common snowberry	5	
				mule-ears	3	
509: Burnson-----	Ponderosa Pine	Favorable	1,200	Gambel's oak	20	
		Normal	900	mountain brome	15	
		Unfavorable	600	Arizona fescue	15	
				common snowberry	10	
				big sagebrush	5	
				western wheatgrass	5	
				bluegrass	5	
				antelope bitterbrush	5	
				needlegrass	5	
510: Jemco-----	Ponderosa Pine	Favorable	1,100	Gambel's oak	20	
		Normal	900	common snowberry	20	
		Unfavorable	700	Arizona fescue	15	
				mountain brome	10	
				bottlebrush squirreltail	5	
				Oregongrape	5	
				mountain muhly	5	
				western wheatgrass	5	
Moento-----	Ponderosa Pine	Favorable	1,500	common snowberry	15	
		Normal	1,300	Arizona fescue	15	
		Unfavorable	1,100	prairie Junegrass	10	
				western wheatgrass	10	
				mountain brome	5	
				Kentucky bluegrass	5	
				needleandthread	5	
				elk sedge	5	
				Gambel's oak	5	
				Saskatoon serviceberry	5	
				Woods' rose	5	
511: Granath-----	Mountain Loam	Favorable	1,500	western wheatgrass		20
		Normal	1,300	mountain muhly		20
		Unfavorable	1,100	prairie Junegrass		15
				mountain brome		10
				Gambel's oak		10
				Utah serviceberry		5
				common snowberry		5
				big sagebrush		5
				bluegrass		5
Fughes-----	Loamy Park	Favorable	1,500	western wheatgrass		20
		Normal	1,300	mountain muhly		20
		Unfavorable	1,100	prairie Junegrass		15
				mountain brome		10
				Gambel's oak		10
				Utah serviceberry		5
				common snowberry		5
				Woods' rose		5
				bluegrass		5

Table 6.--Rangeland and woodland understory productivity and characteristic plant communities--Continued

Map symbol and soil name	Ecological site	Total production		Characteristic native vegetation	Composition	
		Kind of year	Dry weight		Forest	Range- land
			Lb/acre		Pct.	Pct.
512: Wetherill-----	Loamy Foothills	Favorable	1,500	muttongrass		30
		Normal	1,200	western wheatgrass		30
		Unfavorable	800	big sagebrush		15
				bottlebrush squirreltail		5
				needleandthread		5
				Indian ricegrass		5
513: Maudrey-----	Ponderosa Pine	Favorable	1,800	Parry's danthonia	20	
		Normal	1,500	Gambel's oak	10	
		Unfavorable	1,200	mountain snowberry	10	
				nodding brome	10	
				western wheatgrass	10	
				Kentucky bluegrass	10	
				elk sedge	5	
				Saskatoon serviceberry	5	
				bottlebrush squirreltail	5	
Tombac-----	Ponderosa Pine	Favorable	1,500	Gambel's oak	15	
		Normal	1,100	mountain snowberry	10	
		Unfavorable	700	mountain brome	10	
				western wheatgrass	10	
				Kentucky bluegrass	10	
				elk sedge	10	
				needleandthread	5	
				prairie Junegrass	5	
				Saskatoon serviceberry	5	
				bottlebrush squirreltail	5	
				cinquefoil	5	
525: Arabrab-----	Pinyon-Juniper	Favorable	800	mountain muhly	20	
		Normal	600	western wheatgrass	20	
		Unfavorable	400	Indian ricegrass	15	
				antelope bitterbrush	10	
				mountain mahogany	5	
				Gambel's oak	5	
				bottlebrush squirreltail	5	
				blue grama	5	
526: Lonecone-----	Mountain Loam	Favorable	1,800	Arizona fescue		30
		Normal	1,500	western wheatgrass		15
		Unfavorable	1,200	Kentucky bluegrass		15
				mountain brome		10
				big sagebrush		5
				Gambel's oak		5
				mountain snowberry		5
				Utah serviceberry		5
527: Ormiston-----	Pinyon-Juniper	Favorable	1,200	western wheatgrass	15	
		Normal	1,000	Gambel's oak	15	
		Unfavorable	700	muttongrass	10	
				needlegrass	10	
				prairie Junegrass	10	
				blue grama	10	
				black sagebrush	5	
				Utah serviceberry	5	
				mountain muhly	5	
Beje-----	Pinyon Juniper	Favorable	1,100	blue grama	15	
		Normal	900	Kentucky bluegrass	10	
		Unfavorable	700	Gambel's oak	10	
				muttongrass	10	
				western wheatgrass	10	
				true mountain mahogany	10	
				black sagebrush	10	
				Utah serviceberry	5	
				needleandthread	5	
				mountain brome	5	

Table 6.--Rangeland and woodland understory productivity and characteristic plant communities--Continued

Map symbol and soil name	Ecological site	Total production		Characteristic native vegetation	Composition	
		Kind of year	Dry weight		Forest	Range- land
			lb/acre			
552: Burnson-----	Ponderosa Pine	Favorable	1,200	Gambel's oak	20	
		Normal	900	Arizona fescue	15	
		Unfavorable	600	mountain brome	15	
				common snowberry	10	
				big sagebrush	5	
				Rocky Mountain juniper	5	
				western wheatgrass	5	
				bluegrass	5	
				antelope bitterbrush	5	
				needlegrass	5	
553: Burnson-----	Ponderosa Pine	Favorable	1,200	Gambel's oak	20	
		Normal	900	Arizona fescue	15	
		Unfavorable	600	mountain brome	15	
				common snowberry	10	
				Rocky Mountain juniper	5	
				big sagebrush	5	
				western wheatgrass	5	
				bluegrass	5	
				antelope bitterbrush	5	
				needlegrass	5	
Herm-----	Ponderosa Pine	Favorable	1,500	Arizona fescue	15	
		Normal	1,300	prairie Junegrass	10	
		Unfavorable	1,000	mountain muhly	10	
				Gambel's oak	10	
				Saskatoon serviceberry	5	
				bluegrass	5	
				mountain brome	5	
				elk sedge	5	
				common snowberry	5	
				bottlebrush squirreltail	5	
571: Mancos-----	Aspen Woodland	Favorable	3,600	common snowberry	15	
		Normal	3,000	Thurber's fescue	15	
		Unfavorable	2,000	Parry's danthonia	15	
				Arizona fescue	15	
				mountain brome	10	
				Kentucky bluegrass	10	
				Nevada pea	5	
				elk sedge	5	
Skisams-----	Shallow Subalpine	Favorable	2,500	Arizona fescue		15
		Normal	1,000	Letterman's needlegrass		15
		Unfavorable	750	muttongrass		15
				slender wheatgrass		10
				silver sagebrush		10
				cinquefoil		10
				Parry's danthonia		5
Skutum-----	Aspen Woodland	Favorable	3,000	common snowberry	15	
		Normal	2,500	Parry's danthonia	15	
		Unfavorable	2,000	Thurber's fescue	15	
				mountain brome	15	
				Letterman's needlegrass	10	
				Arizona fescue	5	
				Nevada pea	5	
				Kentucky bluegrass	5	
				Gambel's oak	5	
572: Sudduth-----	Subalpine Loam	Favorable	2,500	Thurber's fescue		20
		Normal	2,000	Kentucky bluegrass		15
		Unfavorable	1,500	elk sedge		10
				shrubby cinquefoil		10
				timothy		10
				slender cinquefoil		10
				clover		5
				iris		5
				yarrow		5

Table 6.--Rangeland and woodland understory productivity and characteristic plant communities--Continued

Map symbol and soil name	Ecological site	Total production		Characteristic native vegetation	Composition	
		Kind of year	Dry weight		Forest	Range- land
			Lb/acre		Pct.	Pct.
600: Valto-----	Ponderosa Pine	Favorable Normal Unfavorable	600 500 400	Arizona fescue bluegrass Gambel's oak mountain muhly mountain brome nodding brome prairie Junegrass common snowberry elk sedge Saskatoon serviceberry true mountain mahogany	15 15 10 10 10 5 5 5 5 5 5	
Rock outcrop----	---	Favorable Normal Unfavorable	--- --- ---			
601: Weminuche-----	Engelmann's Spruce-Subalpine Fir	Favorable Normal Unfavorable	900 700 500	Thurber's fescue Arizona fescue mountain brome common snowberry bluegrass grouse whortleberry elk sedge Oregongrape Utah serviceberry twinberry honeysuckle	15 15 10 10 10 5 5 5 3 2	
602: Weminuche-----	Engelmann's Spruce-Subalpine Fir	Favorable Normal Unfavorable	900 700 500	Thurber's fescue Arizona fescue mountain brome common snowberry bluegrass grouse whortleberry elk sedge Oregongrape Utah serviceberry twinberry honeysuckle	15 15 10 10 10 5 5 5 3 2	
603: Weminuche-----	Engelmann's Spruce-Subalpine Fir	Favorable Normal Unfavorable	900 700 500	Thurber's fescue Arizona fescue mountain brome common snowberry bluegrass grouse whortleberry elk sedge Oregongrape Utah serviceberry twinberry honeysuckle	15 15 10 10 10 5 5 5 3 2	
Anvik-----	Mixed Conifer	Favorable Normal Unfavorable	1,500 1,000 500	Arizona fescue Thurber's fescue common snowberry elk sedge bluegrass spike trisetum nodding brome Oregongrape	15 15 15 15 10 10 5 5	
605: Nordicol-----	Mixed Conifer	Favorable Normal Unfavorable	2,500 2,000 1,500	Arizona fescue bluegrass Thurber's fescue Gambel's oak mountain brome snowberry mountain muhly elk sedge Nevada pea Saskatoon serviceberry	20 15 10 10 10 5 5 5 5 5	

Table 6.--Rangeland and woodland understory productivity and characteristic plant communities--Continued

Map symbol and soil name	Ecological site	Total production		Characteristic native vegetation	Composition	
		Kind of year	Dry weight		Forest	Range- land
			Lb/acre		Pct.	Pct.
606: Snowdon-----	Engelmann's Spruce-Subalpine Fir	Favorable	600	whortleberry	20	
		Normal	500	Thurber's fescue	10	
		Unfavorable	400	mountain brome	10	
				bluegrass	10	
				snowberry	10	
				sedge	5	
				Richardson's geranium	5	
				smallflowered woodrush	5	
				common juniper	5	
Needleton-----	Engelmann's Spruce-Subalpine Fir	Favorable	1,000	whortleberry	20	
		Normal	800	Thurber's fescue	15	
		Unfavorable	600	mountain brome	10	
				bluegrass	10	
				Richardson's geranium	10	
				heartleaf arnica	5	
				sedge	5	
				snowberry	5	
				spike trisetum	5	
				needlegrass	5	
607: Graysill-----	Aspen Woodland	Favorable	3,000	Thurber's fescue	20	
		Normal	2,600	mountain snowberry	15	
		Unfavorable	1,800	mountain brome	15	
				bluegrass	10	
				Lettermann's needlegrass	5	
				Nevada pea	5	
				elk sedge	5	
				heartleaf arnica	5	
				kinnikinnick	5	
				Richardson's geranium	5	
Scotch-----	Aspen Woodland	Favorable	2,800	Thurber's fescue	20	
		Normal	2,400	mountain snowberry	15	
		Unfavorable	1,600	bluegrass	10	
				mountain brome	15	
				elk sedge	10	
				Lettermann's needlegrass	5	
				heartleaf arnica	5	
				kinnikinnick	5	
				Richardson's geranium	5	
608: Scotch-----	Engelmann's Spruce-Subalpine Fir	Favorable	1,000	whortleberry	20	
		Normal	800	elk sedge	10	
		Unfavorable	600	Richardson's geranium	10	
				heartleaf arnica	10	
				Thurber's fescue	5	
				mountain brome	5	
				mountain snowberry	5	
				spike trisetum	5	
				kinnikinnick	5	
				common juniper	5	
Graysill-----	Engelmann's Spruce-Subalpine Fir	Favorable	1,000	whortleberry	20	
		Normal	800	elk sedge	10	
		Unfavorable	600	Richardson's geranium	10	
				heartleaf arnica	10	
				Thurber's fescue	5	
				mountain brome	5	
				mountain snowberry	5	
				spike trisetum	5	
				kinnikinnick	5	
				common juniper	5	
609: Hourglass-----	Subalpine Loam	Favorable	3,500	Thurber's fescue		30
		Normal	2,800	nodding brome		10
		Unfavorable	2,000	mountain brome		10
				Arizona fescue		5
				western wheatgrass		5
				needlegrass		5
				bluegrass		5
				American vetch		5
				Parry's danthonia		5
				slender cinquefoil		5
				Richardson's geranium		5

Table 6.--Rangeland and woodland understory productivity and characteristic plant communities--Continued

Map symbol and soil name	Ecological site	Total production		Characteristic native vegetation	Composition	
		Kind of year	Dry weight		Forest	Range- land
			Lb/acre		Pct.	Pct.
609: Wander-----	Subalpine Loam	Favorable	3,000	Thurber's fescue		30
		Normal	2,400	mountain brome		10
		Unfavorable	1,700	bluegrass		10
				needlegrass		10
				Arizona fescue		5
				nodding brome		5
				prairie Junegrass		5
				sedge		5
				American vetch		5
610: Wander-----	Subalpine Loam	Favorable	3,000	Thurber's fescue		30
		Normal	2,400	mountain brome		10
		Unfavorable	1,700	bluegrass		10
				needlegrass		10
				Arizona fescue		5
				nodding brome		5
				prairie Junegrass		5
				sedge		5
				American vetch		5
Hotter-----	Subalpine Loam	Favorable	2,700	Thurber's fescue		30
		Normal	2,100	Arizona fescue		10
		Unfavorable	1,500	Parry's danthonia		10
				mountain brome		10
				needlegrass		10
				sedge		5
				shrubby cinquefoil		5
				spike trisetum		5
Hourglass-----	Subalpine Loam	Favorable	3,500	Thurber's fescue		30
		Normal	2,800	nodding brome		10
		Unfavorable	2,000	mountain brome		10
				Arizona fescue		5
				western wheatgrass		5
				needlegrass		5
				bluegrass		5
				American vetch		5
				Parry's danthonia		5
				slender cinquefoil		5
				Richardson's geranium		5
611: Goldbug-----	Ponderosa Pine	Favorable	1,100	Arizona fescue	20	
		Normal	900	prairie Junegrass	10	
		Unfavorable	750	mountain muhly	10	
				western wheatgrass	10	
				Gambel's oak	10	
				common juniper	5	
				true mountain mahogany	5	
				mountain brome	5	
612: Haviland-----	Engelmann's Spruce-Subalpine Fir	Favorable	1,200	whortleberry	20	
		Normal	900	Thurber's fescue	15	
		Unfavorable	700	mountain brome	10	
				bluegrass	10	
				Richardson's geranium	10	
				heartleaf arnica	5	
				elk sedge	5	
				mountain snowberry	5	
				spike trisetum	5	
				smallflowered woodrush	5	
Graysill-----	Engelmann's Spruce-Subalpine Fir	Favorable	1,000	whortleberry	20	
		Normal	800	elk sedge	10	
		Unfavorable	600	Richardson's geranium	10	
				heartleaf arnica	10	
				Thurber's fescue	5	
				mountain brome	5	
				mountain snowberry	5	
				spike trisetum	5	
				kinnikinnick	5	
				common juniper	5	

Table 6.--Rangeland and woodland understory productivity and characteristic plant communities--Continued

Map symbol and soil name	Ecological site	Total production		Characteristic native vegetation	Composition	
		Kind of year	Dry weight		Forest	Range- land
			lb/acre		Pct.	Pct.
615: Haviland-----	Engelmann's Spruce-Subalpine Fir	Favorable	1,200	whortleberry	20	
		Normal	900	Thurber's fescue	15	
		Unfavorable	700	mountain brome	10	
				bluegrass	10	
				Richardson's geranium	10	
				heartleaf arnica	5	
				elk sedge	5	
				mountain snowberry	5	
				spike trisetum	5	
				kinnikinnick	5	
616: Fortlewis-----	Ponderosa Pine	Favorable	1,100	Gambel's oak	20	
		Normal	850	Arizona fescue	15	
		Unfavorable	700	mountain muhly	10	
				prairie Junegrass	10	
				true mountain mahogany	5	
				western wheatgrass	5	
				bluegrass	5	
				mountain brome	5	
				pine dropseed	5	
		617: Shawa-----	Ponderosa Pine	Favorable	1,600	Arizona fescue	25
Normal	1,200			mountain brome	15	
Unfavorable	900			Gambel's oak	10	
				bluegrass	10	
				western wheatgrass	10	
				needleandthread	5	
				prairie Junegrass	5	
				mountain muhly	5	
				Indian ricegrass	5	
618: Nordicol-----	Mixed Conifer			Favorable	1,400	Arizona fescue	20
		Normal	1,200	bluegrass	15	
		Unfavorable	1,000	Gambel's oak	10	
				common snowberry	10	
				mountain brome	10	
				mountain muhly	5	
				elk sedge	5	
				Saskatoon serviceberry	5	
				Nevada pea	5	
		Valto-----	Ponderosa Pine	Favorable	600	Gambel's oak	15
Normal	500			Arizona fescue	15	
Unfavorable	400			bluegrass	10	
				mountain muhly	10	
				mountain brome	5	
				nodding brome	5	
				prairie Junegrass	5	
				common snowberry	5	
				elk sedge	5	
				Saskatoon serviceberry	5	
		true mountain mahogany	5			
619: Nordicol-----	Engelmann's Spruce-Subalpine Fir	Favorable	1,400	Thurber's fescue	20	
		Normal	1,200	bluegrass	15	
		Unfavorable	1,000	mountain brome	10	
				Gambel's oak	10	
				elk sedge	10	
				Saskatoon serviceberry	10	
				snowberry	5	
				mountain muhly	5	
				kinnikinnick	5	
		620: Caviness-----	Aspen Woodland	Favorable	2,500	common snowberry	35
Normal	2,000			mountain brome	15	
Unfavorable	1,700			Kentucky bluegrass	15	
				elk sedge	10	
				Nevada pea	5	
				meadowrue	5	

Table 6.--Rangeland and woodland understory productivity and characteristic plant communities--Continued

Map symbol and soil name	Ecological site	Total production		Characteristic native vegetation	Composition	
		Kind of year	Dry weight		Forest	Range- land
			Lb/acre		Pct.	Pct.
621: Granturk-----	Shallow Alpine	Favorable	1,200	kobresia		30
		Normal	900	tufted hairgrass		10
		Unfavorable	700	alpine fescue		10
				Ross' avens		10
				sedge		5
				Baker's wheatgrass		5
				spreading wheatgrass		5
				alpine bluegrass		5
				arctic bluegrass		5
				alpine clover		5
622: Granturk-----	Shallow Alpine	Favorable	1,200	kobresia		30
		Normal	900	tufted hairgrass		10
		Unfavorable	700	alpine fescue		10
				Ross' avens		10
				sedge		5
				Baker's wheatgrass		5
				spreading wheatgrass		5
				alpine bluegrass		5
				arctic bluegrass		5
				alpine clover		5
Rock outcrop----	---	Favorable	---			
		Normal	---			
		Unfavorable	---			
623: Chris-----	Engelmann's Spruce-Subalpine Fir	Favorable	800	Gambel's oak	15	
		Normal	700	snowberry	10	
		Unfavorable	600	mountain brome	10	
				bluegrass	10	
				elk sedge	10	
				Arizona fescue	10	
				heartleaf arnica	5	
				mountain muhly	5	
				Saskatoon serviceberry	5	
				spike trisetum	5	
				rose	5	
Nordicol-----	Aspen Woodland	Favorable	2,500	snowberry	20	
		Normal	2,000	mountain brome	15	
		Unfavorable	1,500	western wheatgrass	10	
				elk sedge	10	
				slender wheatgrass	10	
				Arizona fescue	5	
				Thurber's fescue	5	
				nodding brome	5	
				Nevada pea	5	
699: Haplocryolls----	Aspen Woodland	Favorable	2,500	common snowberry	15	
		Normal	2,000	Thurber's fescue	15	
		Unfavorable	1,500	mountain brome	15	
				western wheatgrass	10	
				bluegrass	10	
				prairie Junegrass	5	
				mountain muhly	5	
				elk sedge	5	
				serviceberry	5	
Rubble land----	---	Favorable	---			
		Normal	---			
		Unfavorable	---			
700: Bradfield-----	Mountain Clay Loam	Favorable	1,500	western wheatgrass		20
		Normal	1,100	mountain big sagebrush		15
		Unfavorable	800	Arizona fescue		15
				mountain brome		10
				Columbia needlegrass		10
				prairie Junegrass		5
				mountain muhly		5
				muttongrass		5

Table 6.--Rangeland and woodland understory productivity and characteristic plant communities--Continued

Map symbol and soil name	Ecological site	Total production		Characteristic native vegetation	Composition	
		Kind of year	Dry weight		Forest	Range- land
			lb/acre		Pct.	Pct.
703: Narraguinnep----	Brushy Loam	Favorable	3,000	Gambel's oak		15
		Normal	2,000	mountain snowberry		10
		Unfavorable	1,500	Arizona fescue		10
				mountain brome		10
				bluegrass		10
				needleandthread		5
				mountain muhly		5
				western wheatgrass		5
				elk sedge		5
				slender wheatgrass		5
				basin big sagebrush		5
				Saskatoon serviceberry		5
704: Gladlow-----	Mountain Clay Loam	Favorable	1,500	western wheatgrass		20
		Normal	1,200	Arizona fescue		15
		Unfavorable	1,000	Gambel's oak		10
				needlegrass		10
				mountain muhly		10
				Indian ricegrass		5
				big sagebrush		5
				shrubby cinquefoil		5
Rock outcrop----	---	Favorable	---			
		Normal	---			
		Unfavorable	---			
Ruko-----	Mountain Clay Loam	Favorable	1,100	Indian ricegrass		20
		Normal	900	western wheatgrass		20
		Unfavorable	700	black sagebrush		15
				purple milkvetch		10
				flowery phlox		5
			lanceleaf goldenweed		5	
705: Helmet-----	Aspen Woodland	Favorable	1,200	mountain snowberry	20	
		Normal	1,000	mountain brome	15	
		Unfavorable	800	Kentucky bluegrass	10	
				Nevada pea	10	
				elk sedge	5	
				Fendler's meadowrue	5	
				mountain ninebark	5	
				gooseberry currant	5	
				thimbleberry	5	
				elderberry	5	
706: Narraguinnep----	Brushy Loam	Favorable	3,000	Gambel's oak		15
		Normal	2,000	mountain snowberry		10
		Unfavorable	1,500	Arizona fescue		10
				mountain brome		10
				bluegrass		10
				needleandthread		5
				mountain muhly		5
				western wheatgrass		5
				elk sedge		5
				slender wheatgrass		5
				basin big sagebrush		5
				Saskatoon serviceberry		5
707: Teedown-----	Aspen Woodland	Favorable	3,500	mountain snowberry	20	
		Normal	3,000	Thurber's fescue	15	
		Unfavorable	2,000	Kentucky bluegrass	15	
				mountain brome	10	
				Columbia needlegrass	10	
				elk sedge	10	
				Gambel's oak	5	
				common chokecherry	5	
Nordicol-----	Aspen Woodland	Favorable	2,500	mountain snowberry	20	
		Normal	2,000	Thurber's fescue	15	
		Unfavorable	1,500	mountain brome	15	
				elk sedge	10	
				purple reedgrass	10	
				Nevada pea	5	
				Kentucky bluegrass	5	
				Columbia needlegrass	5	
			slender wheatgrass	5		

Table 6.--Rangeland and woodland understory productivity and characteristic plant communities--Continued

Map symbol and soil name	Ecological site	Total production		Characteristic native vegetation	Composition	
		Kind of year	Dry weight		Forest	Range- land
			Lb/acre		Pct.	Pct.
708: Helmet-----	Engelmann's Spruce-Subalpine Fir	Favorable	1,200	mountain snowberry	20	
		Normal	1,000	mountain brome	15	
		Unfavorable	800	Kentucky bluegrass	10	
				elk sedge	10	
				Fendler's meadowrue	5	
				Nevada pea	5	
				gooseberry currant	5	
				elderberry	5	
				thimbleberry	5	
				mountain ninebark	5	
709: Teedown-----	Subalpine Loam	Favorable	4,000	Thurber's fescue		40
		Normal	3,000	mountain brome		15
		Unfavorable	2,200	Columbia needlegrass		10
				mountain snowberry		10
				Kentucky bluegrass		5
				elk sedge		5
710: Sili-----	Clayey Foothills	Favorable	1,200	basin big sagebrush		15
		Normal	900	western wheatgrass		15
		Unfavorable	600	muttongrass		15
				Indian ricegrass		10
				slender wheatgrass		5
				bottlebrush squirreltail		5
				prairie Junegrass		5
				fourwing saltbush		5
				Utah serviceberry		5
				cliff fendlerbush		5
Zigzag-----	Pinyon-Juniper	Favorable	600	basin big sagebrush	15	
		Normal	400	Indian ricegrass	15	
		Unfavorable	300	muttongrass	10	
				Gambel's oak	10	
				western wheatgrass	10	
				true mountain mahogany	10	
				bottlebrush squirreltail	5	
				antelope bitterbrush	5	
				Utah serviceberry	5	
711: Sili-----	Clayey Foothills	Favorable	1,200	basin big sagebrush		20
		Normal	900	western wheatgrass		20
		Unfavorable	600	Indian ricegrass		10
				muttongrass		10
				bottlebrush squirreltail		5
				prairie Junegrass		5
				fourwing saltbush		5
				cliff fendlerbush		5
				twoneedle pinyon		3
				Utah juniper		2
714: Helmet-----	Engelmann's Spruce-Subalpine Fir	Favorable	1,200	mountain snowberry	20	
		Normal	1,000	mountain brome	15	
		Unfavorable	800	Kentucky bluegrass	10	
				elk sedge	10	
				Fendler's meadowrue	5	
				mountain ninebark	5	
				Nevada pea	5	
				gooseberry currant	5	
				elderberry	5	
				thimbleberry	5	
718: Narraguinnep----	Brushy Loam	Favorable	2,500	Gambel's oak		15
		Normal	2,000	mountain snowberry		10
		Unfavorable	1,500	Arizona fescue		10
				bluegrass		10
				Letterman's needlegrass		10
				western wheatgrass		10
				mountain muhly		5
				muttongrass		5
				elk sedge		5
				basin big sagebrush		5
				Saskatoon serviceberry		5

Table 6.--Rangeland and woodland understory productivity and characteristic plant communities--Continued

Map symbol and soil name	Ecological site	Total production		Characteristic native vegetation	Composition	
		Kind of year	Dry weight		Forest	Range-land
			Lb/acre		Pct.	Pct.
718: Gladlow-----	Brushy Loam	Favorable	2,600	Gambel's oak		15
		Normal	2,100	Arizona fescue		15
		Unfavorable	1,600	western wheatgrass		15
				mountain snowberry		10
				mountain muhly		10
				basin big sagebrush		10
				Letterman's needlegrass		5
720: Zigzag-----	Pinyon-Juniper	Favorable	600	Gambel's oak	10	
		Normal	400	basin big sagebrush	10	
		Unfavorable	300	muttongrass	10	
				Indian ricegrass	10	
				western wheatgrass	10	
				true mountain mahogany	10	
				snowberry	10	
				Utah serviceberry	5	
				cliff fendlerbush	5	
				antelope bitterbrush	5	
Rock outcrop----	---	Favorable	---			
		Normal	---			
		Unfavorable	---			
723: Zigzag-----	Pinyon-Juniper	Favorable	600	basin big sagebrush	15	
		Normal	400	Indian ricegrass	10	
		Unfavorable	300	muttongrass	10	
				Gambel's oak	10	
				western wheatgrass	10	
				true mountain mahogany	10	
				cliff fendlerbush	5	
				antelope bitterbrush	5	
				snowberry	5	
				Utah serviceberry	5	
Rock outcrop----	---	Favorable	---			
		Normal	---			
		Unfavorable	---			
725: Shawa-----	Loamy Park	Favorable	1,800	Arizona fescue		20
		Normal	1,300	mountain muhly		15
		Unfavorable	800	Gambel's oak		10
				mountain brome		10
				western wheatgrass		10
				basin big sagebrush		5
				Indian ricegrass		5
				needleandthread		5
				bluegrass		5
				common snowberry		5
727: Teedown-----	Aspen Woodland	Favorable	3,500	mountain snowberry	20	
		Normal	3,000	Thurber's fescue	15	
		Unfavorable	2,000	Kentucky bluegrass	15	
				mountain brome	10	
				elk sedge	10	
				Columbia needlegrass	5	
				Gambel's oak	5	
				common chokecherry	5	
Nordicol-----	Aspen Woodland	Favorable	2,500	mountain snowberry	20	
		Normal	2,000	Thurber's fescue	15	
		Unfavorable	1,500	mountain brome	10	
				Kentucky bluegrass	10	
				elk sedge	10	
				purple reedgrass	5	
				Nevada pea	5	
				Columbia needlegrass	5	
				slender wheatgrass	5	

Table 6.--Rangeland and woodland understory productivity and characteristic plant communities--Continued

Map symbol and soil name	Ecological site	Total production		Characteristic native vegetation	Composition	
		Kind of year	Dry weight		Forest	Range- land
			Lb/acre		Pct.	Pct.
730: Baird Hollow----	Aspen Woodland	Favorable Normal Unfavorable	2,500 2,000 1,700	mountain brome common snowberry Kentucky bluegrass slender wheatgrass elk sedge purple reedgrass Richardson's geranium Nevada pea twinberry honeysuckle Fendler's meadowrue	20 15 10 10 5 5 5 5 5 5	
Nordicol-----	Aspen Woodland	Favorable Normal Unfavorable	2,500 2,000 1,500	common snowberry mountain brome Thurber's fescue Kentucky bluegrass slender wheatgrass elk sedge Nevada pea purple reedgrass Fendler's meadowrue	15 15 10 10 10 10 5 5 5	
Ryman-----	Aspen Woodland	Favorable Normal Unfavorable	2,500 2,000 1,500	common snowberry Thurber's fescue mountain brome Kentucky bluegrass Nevada pea slender wheatgrass Fendler's meadowrue	25 20 15 10 5 5 5	
731: Ryman-----	Aspen Woodland	Favorable Normal Unfavorable	2,500 2,000 1,500	common snowberry Thurber's fescue mountain brome Kentucky bluegrass Nevada pea slender wheatgrass Fendler's meadowrue	25 20 15 10 5 5 5	
Adel-----	Aspen Woodland	Favorable Normal Unfavorable	3,800 3,000 2,500	common snowberry Thurber's fescue mountain brome western wheatgrass slender wheatgrass Nevada pea Fendler's meadowrue	20 20 15 10 10 10 5	
732: Adel-----	Subalpine Loam	Favorable Normal Unfavorable	3,800 3,000 2,500	Thurber's fescue mountain brome beardless wheatgrass elk sedge American vetch Fendler's meadowrue gooseberry currant quaking aspen		40 15 10 5 5 5 5 5
Quazar-----	Subalpine Loam	Favorable Normal Unfavorable	3,000 2,400 1,700	Thurber's fescue mountain brome Columbia needlegrass Kentucky bluegrass American vetch elk sedge		40 15 10 10 10 5
733: Adel-----	Subalpine Loam	Favorable Normal Unfavorable	3,800 3,000 2,500	Thurber's fescue mountain brome beardless wheatgrass Columbia needlegrass American vetch Fendler's meadowrue gooseberry currant		40 15 10 5 5 5 5
Bucklon-----	Subalpine Loam	Favorable Normal Unfavorable	2,800 2,100 1,500	Thurber's fescue mountain brome western wheatgrass Kentucky bluegrass American vetch Fendler's meadowrue shrubby cinquefoil		40 20 10 5 5 5 5

Table 6.--Rangeland and woodland understory productivity and characteristic plant communities--Continued

Map symbol and soil name	Ecological site	Total production		Characteristic native vegetation	Composition	
		Kind of year	Dry weight		Forest	Range- land
			Lib/acre			
734: Ryman-----	Subalpine Loam	Favorable	3,500	Thurber's fescue		30
		Normal	2,800	mountain brome		10
		Unfavorable	2,000	western wheatgrass		10
				Kentucky bluegrass		10
				beardless wheatgrass		5
				elk sedge		5
				mountain snowberry		5
				Fendler's meadowrue		5
				Nevada pea		5
Clayburn-----	Subalpine Loam	Favorable	3,500	Thurber's fescue		35
		Normal	2,800	mountain brome		10
		Unfavorable	2,000	Columbia needlegrass		10
				Parry's danthonia		10
				American vetch		5
				slender wheatgrass		5
				beardless wheatgrass		5
				cinquefoil		5
740: Cowtown-----	Engelmann's Spruce-Subalpine Fir	Favorable	1,000	whortleberry	15	
		Normal	800	heartleaf arnica	15	
		Unfavorable	600	Thurber's fescue	15	
				mountain brome	15	
				sedge	10	
				sheep fescue	5	
				currant	5	
Scout-----	Engelmann's Spruce-Subalpine Fir	Favorable	1,200	whortleberry	20	
		Normal	900	mountain brome	20	
		Unfavorable	600	Thurber's fescue	10	
				Richardson's geranium	10	
				heartleaf arnica	10	
				sedge	10	
741: Cowtown-----	Engelmann's Spruce-Subalpine Fir	Favorable	1,000	whortleberry	15	
		Normal	800	heartleaf arnica	15	
		Unfavorable	600	Thurber's fescue	15	
				mountain brome	15	
				sedge	10	
				sheep fescue	5	
				currant	5	
Scout-----	Engelmann's Spruce-Subalpine Fir	Favorable	1,200	whortleberry	20	
		Normal	900	mountain brome	20	
		Unfavorable	600	Thurber's fescue	10	
				Richardson's geranium	10	
				heartleaf arnica	10	
				sedge	10	
750: Archuleta-----	Ponderosa Pine	Favorable	700	Gambel's oak	15	
		Normal	500	prairie Junegrass	10	
		Unfavorable	300	mountain muhly	10	
				Arizona fescue	10	
				bluegrass	10	
				mountain brome	5	
				antelope bitterbrush	5	
				Saskatoon serviceberry	5	
				common snowberry	5	
				true mountain mahogany	5	
Sheek-----	Ponderosa Pine	Favorable	700	Gambel's oak	20	
		Normal	550	prairie Junegrass	10	
		Unfavorable	300	mountain muhly	10	
				Arizona fescue	10	
				western wheatgrass	10	
				mountain brome	5	
				antelope bitterbrush	5	
				Saskatoon serviceberry	5	
				common snowberry	5	
				true mountain mahogany	5	

Table 6.--Rangeland and woodland understory productivity and characteristic plant communities--Continued

Map symbol and soil name	Ecological site	Total production		Characteristic native vegetation	Composition	
		Kind of year	Dry weight		Forest	Range- land
			Lb/acre		Pct.	Pct.
801: Fughes-----	Ponderosa Pine	Favorable	1,500	mountain muhly	20	
		Normal	1,300	western wheatgrass	20	
		Unfavorable	1,100	prairie Junegrass	15	
				mountain brome	10	
				Gambel's oak	10	
				Utah serviceberry	5	
				Woods' rose	5	
				common snowberry	5	
				bluegrass	5	
Sheek-----	Ponderosa Pine	Favorable	1,200	Gambel's oak	20	
		Normal	950	Arizona fescue	15	
		Unfavorable	700	mountain brome	15	
				prairie Junegrass	10	
				muttongrass	10	
				Indian ricegrass	5	
				Letterman's needlegrass	5	
				Utah serviceberry	5	
				bottlebrush squirreltail	5	
802: Argiustolls----	Ponderosa Pine	Favorable	1,000	Gambel's oak	35	
		Normal	800	muttongrass	10	
		Unfavorable	600	Utah serviceberry	10	
				Utah snowberry	10	
				elk sedge	5	
				true mountain mahogany	5	
				bottlebrush squirreltail	5	
				prairie Junegrass	5	
				antelope bitterbrush	5	
Haplustalfs----	Ponderosa Pine	Favorable	900	Gambel's oak	35	
		Normal	700	muttongrass	10	
		Unfavorable	500	Utah serviceberry	10	
				Utah snowberry	10	
				elk sedge	5	
				true mountain mahogany	5	
				bottlebrush squirreltail	5	
				prairie Junegrass	5	
				antelope bitterbrush	5	
Rock outcrop----	---	Favorable	---			
		Normal	---			
		Unfavorable	---			
804: Wauquie-----	Pinyon Juniper	Favorable	1,100	Gambel's oak	15	
		Normal	900	true mountain mahogany	10	
		Unfavorable	700	western wheatgrass	10	
				muttongrass	10	
				Indian ricegrass	5	
				big sagebrush	5	
				antelope bitterbrush	5	
Dolcan-----	Pinyon Juniper	Favorable	600	true mountain mahogany	15	
		Normal	500	Indian ricegrass	15	
		Unfavorable	400	western wheatgrass	10	
				galleta	10	
				pinyon ricegrass	5	
				Utah serviceberry	5	
				muttongrass	5	
				common snowberry	5	
Rock outcrop----	---	Favorable	---			
		Normal	---			
		Unfavorable	---			
805: Shawa-----	Aspen Woodland	Favorable	3,000	common snowberry	15	
		Normal	2,500	mountain brome	15	
		Unfavorable	2,000	Arizona fescue	15	
				Gambel's oak	10	
				needlegrass	10	
				western wheatgrass	10	
				muttongrass	5	
				Parry's danthonia	5	

Table 6.--Rangeland and woodland understory productivity and characteristic plant communities--Continued

Map symbol and soil name	Ecological site	Total production		Characteristic native vegetation	Composition	
		Kind of year	Dry weight		Forest	Range- land
			Lb/acre		Pct.	Pct.
805: Fughes-----	Aspen Woodland	Favorable	2,500	common snowberry	15	
		Normal	2,000	Arizona fescue	15	
		Unfavorable	1,500	mountain brome	10	
				Gambel's oak	10	
				needlegrass	10	
				western wheatgrass	10	
				mountain muhly	5	
				bluegrass	5	
				Parry's danthonia	5	
				Utah serviceberry	5	
806: Shawa-----	Aspen Woodland	Favorable	3,000	common snowberry	15	
		Normal	2,500	mountain brome	15	
		Unfavorable	2,000	Arizona fescue	15	
				Gambel's oak	10	
				needlegrass	10	
				western wheatgrass	10	
				muttongrass	5	
				Parry's danthonia	5	
Fughes-----	Aspen Woodland	Favorable	2,500	common snowberry	15	
		Normal	2,000	Arizona fescue	15	
		Unfavorable	1,500	mountain brome	10	
				Gambel's oak	10	
				needlegrass	10	
				western wheatgrass	10	
				mountain muhly	5	
				bluegrass	5	
				Parry's danthonia	5	
				Utah serviceberry	5	
809: Argiustolls----	Douglas Fir	Favorable	1,300	Gambel's oak	35	
		Normal	1,000	muttongrass	10	
		Unfavorable	800	Utah serviceberry	10	
				Utah snowberry	10	
				elk sedge	5	
				true mountain mahogany	5	
				bottlebrush squirreltail	5	
				prairie Junegrass	5	
				antelope bitterbrush	5	
HaplustalFs----	Douglas Fir	Favorable	1,000	Gambel's oak	35	
		Normal	900	muttongrass	10	
		Unfavorable	800	Utah serviceberry	10	
				Utah snowberry	10	
				elk sedge	5	
				true mountain mahogany	5	
				bottlebrush squirreltail	5	
				prairie Junegrass	5	
				antelope bitterbrush	5	
813: Fughes-----	Ponderosa Pine	Favorable	1,500	Gambel's oak	20	
		Normal	1,300	basin big sagebrush	10	
		Unfavorable	1,100	Arizona fescue	10	
				mountain muhly	10	
				prairie Junegrass	10	
				western wheatgrass	10	
				mountain brome	5	
				bluegrass	5	
				needleandthread	5	
814: Leaps-----	Deep Clay Loam	Favorable	2,500	western wheatgrass		35
		Normal	2,000	mountain big sagebrush		10
		Unfavorable	1,500	Arizona fescue		10
				prairie Junegrass		10
				muttongrass		10
				mountain brome		5
				mule-ears		5
				mountain snowberry		3

Table 6.--Rangeland and woodland understory productivity and characteristic plant communities--Continued

Map symbol and soil name	Ecological site	Total production		Characteristic native vegetation	Composition		
		Kind of year	Dry weight		Forest	Range-land	
			Lb/acre		Pct.	Pct.	
814: Hofly-----	Brushy Loam	Favorable	3,000	Gambel's oak		20	
		Normal	2,000	mountain snowberry		10	
		Unfavorable	1,500	western wheatgrass		10	
				mountain brome		10	
				elk sedge		10	
				mule-ears		10	
				slender wheatgrass		5	
				Saskatoon serviceberry		5	
				needlegrass		5	
815: Behanco-----	Aspen Woodland	Favorable	3,500	common snowberry	15		
		Normal	3,000	bluegrass	15		
		Unfavorable	2,500	nodding brome	10		
				Columbia needlegrass	10		
				elk sedge	10		
				slender wheatgrass	10		
				Nevada pea	5		
				Richardson's geranium	5		
				beardless wheatgrass	5		
				Parry's danthonia	5		
Powderhorn family-----		Aspen Woodland	Favorable	3,500	common snowberry	15	
			Normal	3,000	nodding brome	10	
	Unfavorable		2,500	bluegrass	10		
				Fendler's meadowrue	10		
				elk sedge	10		
				slender wheatgrass	5		
				Richardson's geranium	5		
				heartleaf arnica	5		
				American vetch	5		
				California false hellebore	5		
816: Storm-----	Engelmann's Spruce-Subalpine Fir	Favorable	1,200	grouse whortleberry	15		
		Normal	800	Richardson's geranium	10		
		Unfavorable	500	nodding brome	10		
				sedge	10		
				slender wheatgrass	10		
				mountain snowberry	10		
				American vetch	5		
				Columbia needlegrass	5		
				bluegrass	5		
				elderberry	5		
				Fendler's meadowrue	5		
826: Ute-----		Mountain Meadow	Favorable	4,000	tufted hairgrass		30
			Normal	3,500	sedge		25
	Unfavorable		3,000	willow		10	
				rush		5	
				wheatgrass		5	
				bluejoint		5	
				shrubby cinquefoil		5	
				slender cinquefoil		5	
Frisko-----	Engelmann's Spruce-Subalpine Fir	Favorable	800	whortleberry	20		
		Normal	700	Thurber's fescue	15		
		Unfavorable	600	nodding brome	15		
				mountain snowberry	10		
				bluegrass	10		
				elk sedge	10		
				creeping juniper	5		
830: Dressel-----	Aspen Woodland	Favorable	2,500	common snowberry	15		
		Normal	2,000	Columbia needlegrass	15		
		Unfavorable	1,500	nodding brome	10		
				Thurber's fescue	10		
				beardless wheatgrass	10		
				Nevada pea	10		
				slender wheatgrass	5		
				Richardson's geranium	5		
				Fendler's meadowrue	5		

Table 6.--Rangeland and woodland understory productivity and characteristic plant communities--Continued

Map symbol and soil name	Ecological site	Total production		Characteristic native vegetation	Composition	
		Kind of year	Dry weight		Forest	Range- land
			Lb/acre		Pct.	Pct.
830: Jersey-----	Aspen Woodland	Favorable	2,300	common snowberry	20	
		Normal	1,800	Thurber's fescue	10	
		Unfavorable	1,400	nodding brome	10	
				Fendler's meadowrue	10	
				Columbia needlegrass	5	
				heartleaf arnica	5	
				slender wheatgrass	5	
				Richardson's geranium	5	
				Nevada pea	5	
				Woods' rose	5	
				American vetch	5	
832: Storm-----	Engelmann's Spruce-Subalpine Fir	Favorable	1,200	grouse whortleberry	15	
		Normal	800	Richardson's geranium	10	
		Unfavorable	500	nodding brome	10	
				sedge	10	
				slender wheatgrass	10	
				mountain snowberry	10	
				American vetch	5	
				Columbia needlegrass	5	
				bluegrass	5	
				elderberry	5	
				Fendler's meadowrue	5	
834: Haycamp-----	Engelmann's Spruce-Subalpine Fir	Favorable	1,200	grouse whortleberry	15	
		Normal	800	sedge	10	
		Unfavorable	500	nodding brome	10	
				slender wheatgrass	10	
				Fendler's meadowrue	10	
				common snowberry	5	
				Richardson's geranium	5	
				Thurber's fescue	5	
				Letterman's needlegrass	5	
				heartleaf arnica	5	
				American vetch	5	
Jersey-----	Aspen Woodland	Favorable	2,300	common snowberry	20	
		Normal	1,800	Thurber's fescue	10	
		Unfavorable	1,400	nodding brome	10	
				Fendler's meadowrue	10	
				Letterman's needlegrass	5	
				heartleaf arnica	5	
				slender wheatgrass	5	
				Richardson's geranium	5	
				Nevada pea	5	
				Woods' rose	5	
				American vetch	5	
835: Brumley-----	Loamy Foothills	Favorable	1,500	western wheatgrass		20
		Normal	1,100	muttongrass		15
		Unfavorable	800	basin big sagebrush		15
				Indian ricegrass		10
				prairie Junegrass		10
				antelope bitterbrush		10
				needleandthread		5
				bottlebrush squirreltail		5
860: Granath-----	Mountain Loam	Favorable	1,800	Arizona fescue		30
		Normal	1,500	needlegrass		20
		Unfavorable	1,200	western wheatgrass		10
				mountain muhly		10
				Parry's danthonia		10
				big sagebrush		5
				mountain brome		5
				prairie Junegrass		5
				antelope bitterbrush		5
Nortez-----	Pine Grasslands	Favorable	1,400	Arizona fescue		25
		Normal	1,200	needleandthread		15
		Unfavorable	900	mountain muhly		10
				western wheatgrass		10
				Parry's danthonia		10
				big sagebrush		5
				mountain brome		5
				prairie Junegrass		5
				ponderosa pine		5
				antelope bitterbrush		5
				Gambel's oak		5

Table 6.--Rangeland and woodland understory productivity and characteristic plant communities--Continued

Map symbol and soil name	Ecological site	Total production		Characteristic native vegetation	Composition	
		Kind of year	Dry weight		Forest	Range- land
			<u>Lb/acre</u>		<u>Pct.</u>	<u>Pct.</u>
861: Morapos-----	Mountain Clay	Favorable	1,200	western wheatgrass		25
		Normal	900	basin big sagebrush		20
		Unfavorable	600	Arizona fescue		10
				needleandthread		10
				Gambel's oak		5
				muttongrass		5
				prairie Junegrass		5
				Utah serviceberry		5
				black sagebrush		5
862: Granath-----	Mountain Loam	Favorable	1,800	Arizona fescue		30
		Normal	1,500	needlegrass		20
		Unfavorable	1,200	western wheatgrass		10
				mountain muhly		10
				Parry's danthonia		10
				big sagebrush		5
				mountain brome		5
				prairie Junegrass		5
				antelope bitterbrush		5
Dolores-----	Mountain Clay	Favorable	1,200	Gambel's oak		15
		Normal	900	Arizona fescue		15
		Unfavorable	600	western wheatgrass		10
				mountain muhly		10
				needlegrass		5
				prairie Junegrass		10
				mountain brome		5
				bluegrass		5
				common snowberry		5
				Utah serviceberry		5
				slender wheatgrass		5
Fivepine-----	Ponderosa Pine	Favorable	1,200	Gambel's oak	15	
		Normal	800	western wheatgrass	15	
		Unfavorable	600	pine dropseed	10	
				bottlebrush squirreltail	5	
				prairie Junegrass	10	
				mountain muhly	10	
				bluegrass	5	
				common snowberry	5	
				nodding brome	5	
				Utah serviceberry	5	
863: Granath-----	Mountain Loam	Favorable	1,800	Arizona fescue		30
		Normal	1,500	needlegrass		20
		Unfavorable	1,200	western wheatgrass		10
				mountain muhly		10
				Parry's danthonia		10
				mountain brome		5
				prairie Junegrass		5
				big sagebrush		5
				antelope bitterbrush		5
Ormiston-----	Mountain Clay	Favorable	1,200	western wheatgrass		25
		Normal	900	Arizona fescue		15
		Unfavorable	600	needlegrass		15
				slender wheatgrass		10
				Utah serviceberry		5
				black sagebrush		5
				prairie Junegrass		5
				mountain muhly		5
				muttongrass		5
				Gambel's oak		5
				common snowberry		5
Fivepine-----	Ponderosa Pine	Favorable	1,200	Gambel's oak	15	
		Normal	800	western wheatgrass	15	
		Unfavorable	600	mountain muhly	10	
				prairie Junegrass	10	
				bottlebrush squirreltail	10	
				pine dropseed	10	
				Utah serviceberry	5	
				nodding brome	5	
				bluegrass	5	
				common snowberry	5	

Table 6.--Rangeland and woodland understory productivity and characteristic plant communities--Continued

Map symbol and soil name	Ecological site	Total production		Characteristic native vegetation	Composition	
		Kind of year	Dry weight		Forest	Range- land
			Lb/acre		Pct.	Pct.
890:						
Tamarron-----	Engelmann's Spruce-Subalpine Fir	Favorable	500	whortleberry	15	
		Normal	400	mountain snowberry	10	
		Unfavorable	300	nodding brome	10	
				mountain brome	10	
				Letterman's needlegrass	10	
				kinnikinnick	5	
				gooseberry currant	5	
				elderberry	5	
				cinquefoil	5	
				spike trisetum	5	
				smallflowered woodrush	5	
Frisko-----	Engelmann's Spruce-Subalpine Fir	Favorable	800	whortleberry	15	
		Normal	700	mountain snowberry	15	
		Unfavorable	600	nodding brome	15	
				bluegrass	10	
				kinnikinnick	10	
				Thurber's fescue	5	
				Nevada pea	5	
				elk sedge	5	
				creeping juniper	5	
891:						
Tamarron-----	Engelmann's Spruce-Subalpine Fir	Favorable	500	whortleberry	15	
		Normal	400	mountain snowberry	10	
		Unfavorable	300	mountain brome	10	
				nodding brome	10	
				Letterman's needlegrass	10	
				kinnikinnick	5	
				gooseberry currant	5	
				elderberry	5	
				cinquefoil	5	
				spike trisetum	5	
				smallflowered woodrush	5	
Frisko-----	Engelmann's Spruce-Subalpine Fir	Favorable	800	whortleberry	15	
		Normal	700	mountain snowberry	15	
		Unfavorable	600	nodding brome	15	
				bluegrass	10	
				kinnikinnick	10	
				Thurber's fescue	5	
				Nevada pea	5	
				elk sedge	5	
				creeping juniper	5	
901:						
Granath-----	Mountain Loam	Favorable	1,800	Arizona fescue		30
		Normal	1,600	needlegrass		20
		Unfavorable	1,300	western wheatgrass		10
				mountain muhly		10
				Parry's danthonia		10
				mountain brome		5
				prairie Junegrass		5
				antelope bitterbrush		5
				mountain big sagebrush		5
Zoltay-----	Mountain Clay Loam	Favorable	1,500	Arizona fescue		20
		Normal	1,000	mountain muhly		15
		Unfavorable	750	western wheatgrass		15
				Gambel's oak		15
				needlegrass		10
				muttongrass		5
				mountain big sagebrush		5
Nortez-----	Pine Grasslands	Favorable	1,400	Arizona fescue		25
		Normal	1,200	needleandthread		15
		Unfavorable	900	Parry's danthonia		10
				mountain muhly		10
				western wheatgrass		10
				mountain big sagebrush		5
				mountain brome		5
				prairie Junegrass		5
				antelope bitterbrush		5
				Gambel's oak		5

Table 6.--Rangeland and woodland understory productivity and characteristic plant communities--Continued

Map symbol and soil name	Ecological site	Total production		Characteristic native vegetation	Composition	
		Kind of year	Dry weight		Forest	Range- land
			Lb/acre				Pct.	Pct.
903: Anvik-----	Mixed Conifer	Favorable	1,500	common snowberry	15	
		Normal	1,000	elk sedge	15	
		Unfavorable	500	Thurber's fescue	15	
				Arizona fescue	10	
				bluegrass	10	
				spike trisetum	10	
				mountain brome	5	
				Oregongrape	5	
904: Beje-----	Pinyon-Juniper	Favorable	600	true mountain mahogany	20	
		Normal	400	muttongrass	15	
		Unfavorable	200	Indian ricegrass	10	
				prairie Junegrass	10	
				black sagebrush	10	
				blue grama	10	
				Gambel's oak	5	
				squaw apple	5	
905: Cryaquolls-----	Mountain Meadow	Favorable	4,000	tufted hairgrass		35
		Normal	3,700	sedge		20
		Unfavorable	2,500	slender wheatgrass		15
				willow		5
				Baltic rush		5
				shrubby cinquefoil		5
				narrowleaf cottonwood		5
				California false hellebore		5
906: Archuleta-----	Ponderosa Pine	Favorable	1,400	Gambel's oak	15	
		Normal	1,200	prairie Junegrass	10	
		Unfavorable	900	mountain muhly	10	
				Arizona fescue	10	
				bluegrass	10	
				mountain brome	5	
				antelope bitterbrush	5	
				Saskatoon serviceberry	5	
				common snowberry	5	
				true mountain mahogany	5	
				Rocky Mountain juniper	2	
				twoneedle pinyon	2	
907: Archuleta-----	Ponderosa Pine	Favorable	1,400	Gambel's oak	15	
		Normal	1,200	prairie Junegrass	10	
		Unfavorable	900	mountain muhly	10	
				Arizona fescue	10	
				bluegrass	10	
				mountain brome	5	
				antelope bitterbrush	5	
				Saskatoon serviceberry	5	
				common snowberry	5	
				true mountain mahogany	5	
				Rocky Mountain juniper	2	
				twoneedle pinyon	2	
Sanchez-----	Ponderosa Pine	Favorable	750	Arizona fescue	15	
		Normal	600	prairie Junegrass	10	
		Unfavorable	550	mountain muhly	10	
				bluegrass	10	
				Gambel's oak	10	
				mountain brome	5	
				elk sedge	5	
				Saskatoon serviceberry	5	
				common snowberry	5	
				true mountain mahogany	5	
				twoneedle pinyon	2	
				Rocky Mountain juniper	2	
908: Adel-----	Subalpine Loam	Favorable	3,800	Thurber's fescue		30
		Normal	3,000	mountain brome		15
		Unfavorable	2,500	Columbia needlegrass		10
				American vetch		5
				elk sedge		5
				beardless wheatgrass		5
				California false hellebore		5
				quaking aspen		5
				Nevada pea		3
				Fendler's meadowrue		3

Table 6.--Rangeland and woodland understory productivity and characteristic plant communities--Continued

Map symbol and soil name	Ecological site	Total production		Characteristic native vegetation	Composition	
		Kind of year	Dry weight		Forest	Range- land
			Lb/acre		Pct.	Pct.
909: Adel-----	Aspen Woodland	Favorable Normal Unfavorable	3,800 3,000 2,500	common snowberry Thurber's fescue mountain brome western wheatgrass slender wheatgrass Nevada pea Fendler's meadowrue	20 20 15 10 10 10 5	
917: Chris-----	Engelmann's Spruce-Subalpine Fir	Favorable Normal Unfavorable	800 700 600	Gambel's oak snowberry mountain brome bluegrass sedge Arizona fescue heartleaf arnica mountain muhly Saskatoon serviceberry spike trisetum rose	15 10 10 10 10 10 5 5 5 5 5	
919: Clayburn-----	Mountain Loam	Favorable Normal Unfavorable	1,800 1,500 1,200	Arizona fescue Parry's danthonia mountain brome slender wheatgrass mountain muhly bluegrass serviceberry Gambel's oak		30 15 10 10 10 5 5 5
920: Clayburn-----	Douglas Fir-White Fir	Favorable Normal Unfavorable	1,400 1,200 1,000	Arizona fescue bluegrass mountain brome Parry's danthonia Gambel's oak slender wheatgrass elk sedge Nevada pea Oregongrape	20 15 10 10 10 5 5 5 5	
926: Ustolls-----	Ponderosa Pine	Favorable Normal Unfavorable	1,000 600 400	Gambel's oak Utah serviceberry snowberry prairie Junegrass western wheatgrass Arizona fescue Indian ricegrass elk sedge	15 15 10 10 10 10 10 5	
Rock outcrop----	---	Favorable Normal Unfavorable	--- --- ---			
930: Fortlewis-----	Ponderosa Pine	Favorable Normal Unfavorable	1,100 850 700	Gambel's oak Arizona fescue mountain muhly prairie Junegrass true mountain mahogany western wheatgrass bluegrass mountain brome pine dropseed	20 15 10 10 10 5 5 5 5	
Rock outcrop----	---	Favorable Normal Unfavorable	--- --- ---			
934: Ceek-----	Ponderosa Pine	Favorable Normal Unfavorable	1,500 1,200 900	Gambel's oak prairie Junegrass mountain muhly muttongrass elk sedge	25 15 15 15 10	

Table 6.--Rangeland and woodland understory productivity and characteristic plant communities--Continued

Map symbol and soil name	Ecological site	Total production		Characteristic native vegetation	Composition	
		Kind of year	Dry weight		Forest	Range- land
			lb/acre		Pct.	Pct.
937: Herm-----	Ponderosa Pine	Favorable	1,500	Gambel's oak	15	
		Normal	1,300	Arizona fescue	15	
		Unfavorable	1,000	prairie Junegrass	10	
				mountain muhly	10	
				bluegrass	10	
				mountain brome	5	
				elk sedge	5	
				common snowberry	5	
				Saskatoon serviceberry	5	
				true mountain mahogany	5	
939: Ohwiler-----	Loamy Park	Favorable	2,500	Arizona fescue		25
		Normal	1,800	Parry's danthonia		15
		Unfavorable	1,000	needleandthread		10
				western wheatgrass		10
				nodding brome		5
				prairie Junegrass		5
				mountain muhly		5
				Gambel's oak		5
				common snowberry		3
				Utah serviceberry		3
940: Horsethief-----	Engelmann's Spruce-Subalpine Fir	Favorable	1,800	whortleberry	15	
		Normal	1,650	mountain brome	15	
		Unfavorable	1,500	Thurber's fescue	15	
				bluegrass	15	
				mountain snowberry	10	
				elk sedge	5	
				spike trisetum	5	
				elderberry	5	
942: Fivepine-----	Ponderosa Pine	Favorable	1,200	Gambel's oak	15	
		Normal	800	western wheatgrass	15	
		Unfavorable	600	pine dropseed	10	
				prairie Junegrass	10	
				mountain muhly	10	
				bottlebrush squirreltail	5	
				bluegrass	5	
				common snowberry	5	
				mountain brome	5	
				Utah serviceberry	5	
Pino-----	Ponderosa Pine	Favorable	1,500	Arizona fescue	15	
		Normal	1,200	needlegrass	15	
		Unfavorable	800	Gambel's oak	10	
				western wheatgrass	10	
				mountain muhly	10	
				mountain brome	10	
				pine dropseed	5	
				prairie Junegrass	5	
bottlebrush squirreltail	5					
945: Nizhoni-----	Pinyon-Juniper	Favorable	300	western wheatgrass	15	
		Normal	200	Indian ricegrass	15	
		Unfavorable	50	true mountain mahogany	15	
				galleta	15	
				blue grama	10	
				bottlebrush squirreltail	10	
				antelope bitterbrush	5	
				Arabrab-----	Pinyon-Juniper	Favorable	500	true mountain mahogany	15
Normal	250	galleta	15			
Unfavorable	100	Indian ricegrass	10			
		big sagebrush	10			
		antelope bitterbrush	10			
		western wheatgrass	10			
		blue grama	10			
		squaw apple	5			
Rock outcrop----	---	Favorable	---			
		Normal	---			
		Unfavorable	---			

Table 6.--Rangeland and woodland understory productivity and characteristic plant communities--Continued

Map symbol and soil name	Ecological site	Total production		Characteristic native vegetation	Composition	
		Kind of year	Dry weight		Forest	Range- land
			lb/acre			
950: Pescar-----	Mountain Meadow	Favorable	4,000	tufted hairgrass		35
		Normal	3,000	slender wheatgrass		20
		Unfavorable	2,000	sedge		20
				Baltic rush		5
				willow		5
				narrowleaf cottonwood		5
951: Endoaquolls----	Mountain Meadow	Favorable	4,000	tufted hairgrass		25
		Normal	3,000	Nebraska sedge		20
		Unfavorable	2,000	Baltic rush		15
				bluegrass		10
				redtop		5
				iris		5
				willow		5
955: Umbarg-----	Wet Meadow	Favorable	3,000	Baltic rush		15
		Normal	2,600	sedge		15
		Unfavorable	2,300	western wheatgrass		15
				Kentucky bluegrass		10
				foxtail barley		10
				smooth brome		10
Winner-----	Wet Meadow	Favorable	2,500	sedge		30
		Normal	2,000	other perennial forbs		25
		Unfavorable	1,500	other perennial grasses		20
				mountain brome		10
				tufted hairgrass		5
Tesajo-----	Wet Meadow	Favorable	2,500	sedge		20
		Normal	2,000	mountain brome		10
		Unfavorable	1,500	tufted hairgrass		5
				Rocky Mountain iris		5
				other perennial grasses		30
				other perennial forbs		10
				other shrubs		5
956: Ormiston-----	Mountain Clay	Favorable	1,200	Arizona fescue		20
		Normal	900	western wheatgrass		15
		Unfavorable	600	Gambel's oak		15
				needlegrass		15
				slender wheatgrass		5
				mountain muhly		5
				muttongrass		5
				common snowberry		5
				Utah serviceberry		5
Granath-----	Mountain Loam	Favorable	1,800	Arizona fescue		30
		Normal	1,500	needlegrass		20
		Unfavorable	1,200	western wheatgrass		10
				mountain muhly		10
				Parry's danthonia		10
				big sagebrush		5
				mountain brome		5
				prairie Junegrass		5
				antelope bitterbrush		5
958: Sheek-----	Ponderosa Pine	Favorable	600	Gambel's oak	15	
		Normal	400	Arizona fescue	10	
		Unfavorable	350	prairie Junegrass	10	
				mountain muhly	10	
				western wheatgrass	5	
				antelope bitterbrush	5	
				snowberry	5	
				serviceberry	5	
				mountain brome	5	
				mountain mahogany	5	
Archuleta-----	Ponderosa Pine	Favorable	500	Gambel's oak	15	
		Normal	350	Arizona fescue	10	
		Unfavorable	300	prairie Junegrass	10	
				mountain muhly	10	
				western wheatgrass	10	
				antelope bitterbrush	5	
				snowberry	5	
				serviceberry	5	
				mountain brome	5	
				mountain mahogany	5	

Table 6.--Rangeland and woodland understory productivity and characteristic plant communities--Continued

Map symbol and soil name	Ecological site	Total production		Characteristic native vegetation	Composition	
		Kind of year	Dry weight		Forest	Range-land
			Lb/acre		Pct.	Pct.
958: Rock outcrop----	---	Favorable	---			
		Normal	---			
		Unfavorable	---			
959: Granath-----	Mountain Loam	Favorable	1,800	Arizona fescue		30
		Normal	1,500	needlegrass		20
		Unfavorable	1,200	western wheatgrass		10
				mountain muhly		10
				Parry's danthonia		10
				big sagebrush		5
				mountain brome		5
				prairie Junegrass		5
				antelope bitterbrush		5
965: Narraguinnep----	Deep Clay Loam	Favorable	2,500	western wheatgrass		40
		Normal	2,000	Letterman's needlegrass		15
		Unfavorable	1,500	mountain big sagebrush		10
				slender wheatgrass		5
				Columbia needlegrass		5
				Saskatoon serviceberry		5
				muttongrass		5
Dapoin-----	Deep Clay Loam	Favorable	2,500	western wheatgrass		40
		Normal	2,000	Letterman's needlegrass		15
		Unfavorable	1,500	mountain big sagebrush		10
				slender wheatgrass		5
				Columbia needlegrass		5
				Saskatoon serviceberry		5
				muttongrass		5
966: Cryaquepts-----	Alpine Meadow	Favorable	4,000	sedge		25
		Normal	3,000	tufted hairgrass		15
		Unfavorable	2,000	arctic bluegrass		10
				planeleaf willow		10
				American bistort		10
				Ross' avens		10
				redtop		5
967: Quazar-----	Subalpine Loam	Favorable	3,000	Thurber's fescue		40
		Normal	2,400	Parry's danthonia		10
		Unfavorable	1,700	bluegrass		10
				needlegrass		10
				mountain brome		5
				sedge		5
				slender wheatgrass		5
Cryaquolls-----	Alpine Meadow	Favorable	4,000	sedge		20
		Normal	3,000	tufted hairgrass		15
		Unfavorable	2,000	Baltic rush		15
				willow		15
				shrubby cinquefoil		5
				bluegrass		5
				stonecrop		5
				alpine clover		5
				California false hellebore		5
Cryohemists-----	Alpine Meadow	Favorable	3,000	tufted hairgrass		20
		Normal	2,800	sedge		15
		Unfavorable	2,400	lousewort		10
				alpine timothy		10
				alpine clover		10
				alpine bluegrass		5
				cinquefoil		5
				willow		5
				California false hellebore		5
968: Nortez-----	Pine Grasslands	Favorable	1,400	Arizona fescue		25
		Normal	1,200	needleandthread		15
		Unfavorable	900	mountain muhly		10
				western wheatgrass		10
				Parry's danthonia		10
				big sagebrush		5
				mountain brome		5
				prairie Junegrass		5
				ponderosa pine		5
				antelope bitterbrush		5
				Gambel's oak		5

Table 6.--Rangeland and woodland understory productivity and characteristic plant communities--Continued

Map symbol and soil name	Ecological site	Total production		Characteristic native vegetation	Composition	
		Kind of year	Dry weight		Forest	Range- land
			<u>Lb/acre</u>		<u>Pct.</u>	<u>Pct.</u>
968: Granath-----	Mountain Loam	Favorable	1,800	Arizona fescue		30
		Normal	1,500	needlegrass		20
		Unfavorable	1,200	western wheatgrass		10
				mountain muhly		10
				Parry's danthonia		10
				big sagebrush		5
				mountain brome		5
				prairie Junegrass		5
				antelope bitterbrush		5
969: Nortez-----	Pine Grasslands	Favorable	1,400	Arizona fescue		25
		Normal	1,200	needleandthread		15
		Unfavorable	900	Parry's danthonia		10
				mountain muhly		10
				western wheatgrass		10
				mountain big sagebrush		5
				mountain brome		5
				prairie Junegrass		5
				antelope bitterbrush		5
				Gambel's oak		5
Fivepine-----	Ponderosa Pine	Favorable	1,200	Gambel's oak	15	
		Normal	800	western wheatgrass	15	
		Unfavorable	600	pine dropseed	10	
				bottlebrush squirreltail	10	
				prairie Junegrass	10	
				mountain muhly	10	
				bluegrass	5	
				common snowberry	5	
				nodding brome	5	
				Utah serviceberry	5	
972: Pagoda-----	Ponderosa Pine	Favorable	1,400	Gambel's oak	15	
		Normal	1,200	western wheatgrass	15	
		Unfavorable	1,000	Arizona fescue	15	
				prairie Junegrass	10	
				pine dropseed	10	
				Saskatoon serviceberry	5	
				bottlebrush squirreltail	5	
				nodding brome	5	
				mountain muhly	5	
				bluegrass	5	
				common snowberry	5	
Coulterg-----	Ponderosa Pine	Favorable	1,500	Gambel's oak	20	
		Normal	1,200	Arizona fescue	15	
		Unfavorable	1,000	mountain brome	10	
				elk sedge	10	
				slender wheatgrass	10	
				Letterman's needlegrass	10	
				common snowberry	5	
				Saskatoon serviceberry	5	
Wiggler-----	Ponderosa Pine	Favorable	1,500	Gambel's oak	20	
		Normal	1,200	Arizona fescue	15	
		Unfavorable	1,000	mountain brome	10	
				elk sedge	10	
				slender wheatgrass	10	
				Letterman's needlegrass	10	
				common snowberry	5	
				Saskatoon serviceberry	5	
989: Ryman-----	Subalpine Loam	Favorable	3,500	Thurber's fescue		20
		Normal	2,800	Arizona fescue		10
		Unfavorable	2,000	Parry's danthonia		10
				needlegrass		10
				western wheatgrass		10
				mountain brome		10
				Kentucky bluegrass		5
				beardless wheatgrass		5
				Fendler's meadowrue		5
				mountain snowberry		5

Table 6.--Rangeland and woodland understory productivity and characteristic plant communities--Continued

Map symbol and soil name	Ecological site	Total production		Characteristic native vegetation	Composition	
		Kind of year	Dry weight		Forest	Range- land
			Lb/acre		Pct.	Pct.
990: Ryman-----	Deep Clay Loam	Favorable	2,500	western wheatgrass		30
		Normal	2,000	needlegrass		15
		Unfavorable	1,500	mountain big sagebrush		10
				Arizona fescue		10
				slender wheatgrass		10
				nodding brome		10
				mountain snowberry		2
992: Gladlow-----	Mountain Clay Loam	Favorable	1,200	Arizona fescue		20
		Normal	1,000	western wheatgrass		20
		Unfavorable	800	mountain muhly		15
				needlegrass		10
				Indian ricegrass		5
				shrubby cinquefoil		5
				big sagebrush		5
				Gambel's oak		5
996: Zoltay-----	Mountain Clay Loam	Favorable	1,500	Arizona fescue		20
		Normal	1,000	mountain muhly		15
		Unfavorable	750	western wheatgrass		15
				Gambel's oak		15
				Letterman's needlegrass		10
				muttongrass		5
				mountain big sagebrush		5
997: Zigzag-----	Pinyon-Juniper	Favorable	600	basin big sagebrush	15	
		Normal	400	Indian ricegrass	15	
		Unfavorable	300	western wheatgrass	15	
				Gambel's oak	10	
				true mountain mahogany	10	
				muttongrass	5	
				bottlebrush squirreltail	5	
				antelope bitterbrush	5	
				Utah serviceberry	5	
Bodot-----	Clayey Foothills	Favorable	1,000	western wheatgrass		20
		Normal	800	basin big sagebrush		15
		Unfavorable	600	muttongrass		15
				Indian ricegrass		10
				prairie Junegrass		10
				bottlebrush squirreltail		5
				cliff fendlerbush		5
				rabbitbrush		5
Rock outcrop----	---	Favorable	---			
		Normal	---			
		Unfavorable	---			

Table 7.--Forest productivity

Map symbol and soil name	Potential productivity			Trees to manage
	Common trees	Site index	Volume of wood fiber cu ft/ac	
1: Bradfield-----	---	---	---	---
Narraguinnep-----	---	---	---	---
2: Hesperus-----	---	---	---	---
10: Lillings-----	---	---	---	---
12: Shawa-----	---	---	---	---
13: Fughes-----	---	---	---	---
14: Dalmatian-----	---	---	---	---
Apmay-----	---	---	---	---
Schrader-----	---	---	---	---
15: Umbarg-----	---	---	---	---
16: Payter-----	---	---	---	---
17: Fluvaquents-----	---	---	---	---
Haplustolls-----	---	---	---	---
18: Endoaquolls-----	---	---	---	---
Ustifluvents-----	---	---	---	---
20: Mavreeso-----	ponderosa pine----- Rocky Mountain Douglas-fir-----	88 85	82 77	ponderosa pine
51: Clayburn-----	---	---	---	---
Hourglass-----	---	---	---	---
52: Ohwiler-----	---	---	---	---
53: Cryaquolls-----	---	---	---	---
Typic Cryaquents-----	---	---	---	---
54: Quazar-----	---	---	---	---

Table 7.--Forest productivity--Continued

Map symbol and soil name	Potential productivity			Trees to manage
	Common trees	Site index	Volume of wood fiber cu ft/ac	
56: Typic Cryaquents-----	---	---	---	---
Cryaquolls-----	---	---	---	---
Cryofibrists-----	---	---	---	---
57: Howardsville-----	---	---	---	---
58: Fughes-----	---	---	---	---
Herm-----	---	---	---	---
59: Fughes-----	---	---	---	---
Herm-----	---	---	---	---
60: Grimes-----	ponderosa pine----- Rocky Mountain Douglas-fir----- blue spruce-----	73 --- --- ---	59 0 0 0	ponderosa pine
110: Sheek-----	twoneedle pinyon---- Utah juniper-----	120 ---	29 0	---
Ormiston-----	twoneedle pinyon---- Utah juniper-----	--- ---	--- ---	ponderosa pine
111: Fardraw-----	---	---	---	---
113: Dolores-----	---	---	---	---
150: Silex-----	Engelmann's spruce-- subalpine fir-----	61 82	51 79	lodgepole pine
Rock outcrop-----	---	---	---	---
151: Frisco-----	Engelmann's spruce-- subalpine fir----- quaking aspen----- white fir----- Rocky Mountain Douglas-fir-----	80 73 90 --- 84 ---	76 66 59 0 0 0	Engelmann's spruce, subalpine fir, Rocky Mountain Douglas-fir, lodgepole pine
152: Frisco-----	Engelmann's spruce-- subalpine fir----- quaking aspen----- white fir----- Rocky Mountain Douglas-fir-----	80 73 90 --- 84 ---	76 66 59 0 75 ---	Engelmann's spruce, subalpine fir, Rocky Mountain Douglas-fir, lodgepole pine

Table 7.--Forest productivity--Continued

Map symbol and soil name	Potential productivity			Trees to manage
	Common trees	Site index	Volume of wood fiber	
			cu ft/ac	
153: Frisco-----	Engelmann's spruce-- subalpine fir----- quaking aspen----- white fir----- Rocky Mountain Douglas-fir-----	80 73 90 --- 84	76 66 59 0 75	Engelmann's spruce, subalpine fir, Rocky Mountain Douglas-fir, lodgepole pine
Horsethief-----	Engelmann's spruce-- subalpine fir----- quaking aspen----- white fir----- Rocky Mountain Douglas-fir-----	75 80 65 55 80	69 76 36 109 69	Engelmann's spruce, subalpine fir, lodgepole pine, Rocky Mountain Douglas-fir
154: Frisco-----	Engelmann's spruce-- subalpine fir----- quaking aspen----- white fir----- Rocky Mountain Douglas-fir-----	80 73 90 --- 84	76 66 59 0 75	Engelmann's spruce, subalpine fir, Rocky Mountain Douglas-fir, lodgepole pine
Horsethief-----	Engelmann's spruce-- quaking aspen----- Rocky Mountain Douglas-fir----- subalpine fir----- white fir-----	75 65 80 80 55	69 36 69 76 109	Engelmann's spruce, subalpine fir, Rocky Mountain Douglas-fir, lodgepole pine
155: Tuckerville-----	Rocky Mountain Douglas-fir----- Engelmann's spruce-- subalpine fir----- white fir-----	84 87 90 50	75 86 91 91	Engelmann's spruce, subalpine fir, white fir, Rocky Mountain Douglas- fir, lodgepole pine
Rock outcrop-----	---	---	---	---
156: Sponsor-----	quaking aspen----- white fir----- Rocky Mountain Douglas-fir-----	80 60 90	48 128 85	lodgepole pine, quaking aspen, Rocky Mountain Douglas-fir, white fir
Tuckerville-----	Rocky Mountain Douglas-fir----- Engelmann's spruce-- subalpine fir----- white fir----- quaking aspen-----	84 87 90 50 81	75 86 91 91 49	Engelmann's spruce, subalpine fir, white fir, Rocky Mountain Douglas- fir, lodgepole pine
157: Sponsor-----	white fir----- quaking aspen----- Rocky Mountain Douglas-fir-----	60 80 90	128 48 85	lodgepole pine, quaking aspen, Rocky Mountain Douglas-fir, white fir

Table 7.--Forest productivity--Continued

Map symbol and soil name	Potential productivity			Trees to manage
	Common trees	Site index	Volume of wood fiber cu ft/ac	
157: Tuckerville-----	white fir----- Rocky Mountain Douglas-fir----- Engelmann's spruce-- subalpine fir----- quaking aspen-----	50 84 87 90 81	91 75 86 91 49	Engelmann's spruce, subalpine fir, lodgepole pine, Rocky Mountain Douglas-fir
158: Sponsor-----	quaking aspen----- white fir----- Rocky Mountain Douglas-fir-----	80 60 90	48 128 85	lodgepole pine, quaking aspen, Rocky Mountain Douglas-fir, white fir
Tuckerville-----	white fir----- Rocky Mountain Douglas-fir----- Engelmann's spruce-- subalpine fir-----	50 84 87 90	91 75 86 91	Engelmann's spruce, subalpine fir, white fir, lodgepole pine, Rocky Mountain Douglas-fir
159: Tuckerville-----	Rocky Mountain Douglas-fir----- Engelmann's spruce-- subalpine fir----- white fir----- quaking aspen-----	84 87 90 50 81	75 86 91 91 49	Engelmann's spruce, subalpine fir, white fir, Rocky Mountain Douglas- fir, lodgepole pine
160: Anvik-----	quaking aspen----- white fir----- Engelmann's spruce-- subalpine fir-----	66 60 87 65	36 129 86 56	Engelmann's spruce, lodgepole pine, quaking aspen
Tuckerville-----	Engelmann's spruce-- subalpine fir----- white fir----- Rocky Mountain Douglas-fir----- quaking aspen-----	87 90 50 84 81	86 91 91 75 49	Engelmann's spruce, subalpine fir, white fir, Rocky Mountain Douglas- fir, lodgepole pine
161: Needleton-----	Engelmann's spruce-- subalpine fir----- quaking aspen-----	84 80 80	82 76 48	Engelmann's spruce, subalpine fir, lodgepole pine
162: Quazar-----	---	---	---	---
Varden-----	---	---	---	---
163: Clayburn-----	quaking aspen----- white fir-----	70 ---	39 ---	quaking aspen
Hourglass-----	quaking aspen----- white fir-----	68 ---	38 ---	quaking aspen

Table 7.--Forest productivity--Continued

Map symbol and soil name	Potential productivity			Trees to manage
	Common trees	Site index	Volume of wood fiber	
			cu ft/ac	
164: Hourglass-----	quaking aspen----- white fir-----	68 ---	38 ---	quaking aspen
Bucklon-----	quaking aspen----- white fir-----	45 ---	20 ---	quaking aspen
Wander-----	quaking aspen----- white fir-----	70 ---	39 ---	quaking aspen
165: Pinacol-----	ponderosa pine-----	88	82	ponderosa pine
166: Pinacol-----	ponderosa pine-----	76	57	ponderosa pine
250: Snowdon-----	Engelmann's spruce-- subalpine fir----- quaking aspen----- Rocky Mountain Douglas-fir-----	57 63 60 --- ---	46 53 32 0	Engelmann's spruce, subalpine fir
Rock outcrop-----	---	---	---	---
251: Rock outcrop-----	---	---	---	---
Snowdon-----	Engelmann's spruce-- subalpine fir----- quaking aspen----- Rocky Mountain Douglas-fir-----	57 63 60 --- ---	46 53 32 0	Engelmann's spruce, subalpine fir
254: Typic Cryorthents-----	Engelmann's spruce-- subalpine fir----- quaking aspen-----	61 --- ---	57 0 0	---
Rubble land-----	---	---	---	---
330: Needleton-----	Engelmann's spruce-- subalpine fir----- quaking aspen-----	84 80 80	82 76 48	Engelmann's spruce, subalpine fir, lodgepole pine
331: Needleton-----	Engelmann's spruce-- subalpine fir----- quaking aspen-----	84 80 80	82 76 48	Engelmann's spruce, subalpine fir, lodgepole pine
332: Horsethief-----	Engelmann's spruce-- subalpine fir----- quaking aspen-----	80 80 65	76 76 36	Engelmann's spruce, subalpine fir, lodgepole pine
Needleton-----	Engelmann's spruce-- subalpine fir----- quaking aspen-----	84 80 80	82 76 48	Engelmann's spruce, subalpine fir, lodgepole pine

Table 7.--Forest productivity--Continued

Map symbol and soil name	Potential productivity			Trees to manage
	Common trees	Site index	Volume of wood fiber cu ft/ac	
333: Henson, south aspect----	---	---	---	---
334: Henson, south aspect----	---	---	---	---
335: Whitecross-----	---	---	---	---
Rock outcrop-----	---	---	---	---
336: Whitecross, south aspect	---	---	---	---
Rock outcrop-----	---	---	---	---
337: Whitecross-----	---	---	---	---
Rock outcrop-----	---	---	---	---
338: Henson-----	---	---	---	---
339: Henson-----	---	---	---	---
340: Moran-----	---	---	---	---
341: Moran-----	---	---	---	---
342: Telluride-----	---	---	---	---
Rock outcrop-----	---	---	---	---
343: Telluride-----	---	---	---	---
Rock outcrop-----	---	---	---	---
345: Papaspila-----	---	---	---	---
350: Flygare-----	quaking aspen-----	70	39	quaking aspen
Foidel-----	quaking aspen-----	78	46	quaking aspen
355: Flygare-----	quaking aspen-----	70	39	quaking aspen
Foidel-----	quaking aspen-----	78	46	quaking aspen
360: Blacksnag-----	Engelmann's spruce-- subalpine fir----- quaking aspen-----	82 78 77	79 73 45	Engelmann's spruce, subalpine fir, lodgepole pine

Table 7.--Forest productivity--Continued

Map symbol and soil name	Potential productivity			Trees to manage
	Common trees	Site index	Volume of wood fiber	
			cu ft/ac	
360: Peeler-----	Engelmann's spruce-- subalpine fir----- quaking aspen-----	64 62 77	55 52 45	Engelmann's spruce, subalpine fir, lodgepole pine
361: Blacksnag-----	Engelmann's spruce-- subalpine fir----- quaking aspen-----	82 78 77	79 73 45	Engelmann's spruce, subalpine fir, lodgepole pine
Peeler-----	Engelmann's spruce-- subalpine fir----- quaking aspen-----	64 62 77	55 52 45	Engelmann's spruce, subalpine fir, lodgepole pine
374: Mavreeso-----	ponderosa pine----- quaking aspen----- Rocky Mountain Douglas-fir-----	85 --- 80	77 --- 69	ponderosa pine
Valto-----	ponderosa pine----- quaking aspen----- Rocky Mountain Douglas-fir-----	65 72 65	50 41 50	ponderosa pine
Rock outcrop-----	---	---	---	---
375: Needleton-----	Engelmann's spruce-- subalpine fir----- quaking aspen-----	84 80 80	82 76 48	Engelmann's spruce, subalpine fir, lodgepole pine
Snowdon-----	Engelmann's spruce-- subalpine fir----- quaking aspen-----	72 66 62	65 57 34	Engelmann's spruce, subalpine fir, lodgepole pine
376: Needleton-----	Engelmann's spruce-- subalpine fir----- quaking aspen-----	84 80 80	82 72 43	Engelmann's spruce, subalpine fir, lodgepole pine
378: Needleton-----	Engelmann's spruce-- subalpine fir----- quaking aspen-----	84 80 80	82 72 43	Engelmann's spruce, subalpine fir, lodgepole pine
Haviland-----	Engelmann's spruce-- subalpine fir----- quaking aspen-----	90 85 80	91 83 48	Engelmann's spruce, subalpine fir, lodgepole pine
380: Snowdon-----	Engelmann's spruce-- subalpine fir----- quaking aspen-----	72 66 62	65 57 34	Engelmann's spruce, subalpine fir, lodgepole pine
Rock outcrop-----	---	---	---	---

Table 7.--Forest productivity--Continued

Map symbol and soil name	Potential productivity			Trees to manage
	Common trees	Site index	Volume of wood fiber cu ft/ac	
381:				
Needleton-----	Engelmann's spruce--	84	82	Engelmann's spruce, subalpine fir, lodgepole pine, quaking aspen
	subalpine fir-----	80	76	
	quaking aspen-----	80	48	
Snowdon-----	Engelmann's spruce--	72	65	Engelmann's spruce, subalpine fir, lodgepole pine, quaking aspen
	subalpine fir-----	66	57	
	quaking aspen-----	62	34	
Rock outcrop-----	---	---	---	---
382:				
Needleton-----	subalpine fir-----	80	76	Engelmann's spruce, subalpine fir, lodgepole pine, quaking aspen
	Engelmann's spruce--	84	82	
	quaking aspen-----	80	48	
Snowdon-----	subalpine fir-----	66	57	Engelmann's spruce, subalpine fir, lodgepole pine, quaking aspen
	Engelmann's spruce--	72	65	
	quaking aspen-----	62	34	
383:				
Haviland-----	Engelmann's spruce--	90	91	Engelmann's spruce, subalpine fir, lodgepole pine
	subalpine fir-----	85	83	
	quaking aspen-----	80	48	
Needleton-----	Engelmann's spruce--	84	82	Engelmann's spruce, subalpine fir, lodgepole pine
	subalpine fir-----	80	76	
	quaking aspen-----	80	48	
386:				
Needleton-----	Engelmann's spruce--	84	82	Engelmann's spruce, subalpine fir
	subalpine fir-----	80	76	
	Rocky Mountain	80	69	
	Douglas-fir-----			
387:				
Frisco-----	Engelmann's spruce--	80	76	Engelmann's spruce, subalpine fir, lodgepole pine
	subalpine fir-----	73	66	
	quaking aspen-----	90	59	
	Rocky Mountain	84	75	
	Douglas-fir-----			
Quazar-----	quaking aspen-----	---	---	---
388:				
Frisco-----	Engelmann's spruce--	80	76	Engelmann's spruce, subalpine fir, lodgepole pine
	subalpine fir-----	73	66	
	quaking aspen-----	90	59	
Quazar-----	quaking aspen-----	---	---	---
389:				
Seitz-----	Engelmann's spruce--	66	57	Engelmann's spruce, subalpine fir
	subalpine fir-----	66	57	
390:				
Clayburn-----	---	---	---	---

Table 7.--Forest productivity--Continued

Map symbol and soil name	Potential productivity			Trees to manage
	Common trees	Site index	Volume of wood fiber cu ft/ac	
390: Heisspitz-----	---	---	---	---
391: Runlett-----	---	---	---	---
Sessions-----	---	---	---	---
392: Runlett-----	---	---	---	---
Needleton-----	Engelmann's spruce-- subalpine fir----- quaking aspen-----	84 80 80	82 76 48	Engelmann's spruce, subalpine fir, lodgepole pine
Sessions-----	---	---	---	---
393: Heisspitz-----	---	---	---	---
Sessions-----	---	---	---	---
Rock outcrop-----	---	---	---	---
394: Clayburn-----	quaking aspen-----	70	39	---
Heisspitz-----	---	---	---	---
395: Scout-----	Engelmann's spruce-- subalpine fir-----	72 69	65 61	Engelmann's spruce, subalpine fir, lodgepole pine
396: Scout-----	Engelmann's spruce-- subalpine fir-----	72 69	65 61	Engelmann's spruce, subalpine fir, lodgepole pine
399: Kite-----	---	---	---	---
Rock outcrop-----	---	---	---	---
450: Lostlake-----	Engelmann's spruce-- subalpine fir----- Rocky Mountain Douglas-fir----- quaking aspen-----	60 60 55 50	50 50 42 25	Engelmann's spruce, subalpine fir, lodgepole pine
Rock outcrop-----	---	---	---	---
452: Dystrocryepts-----	---	---	---	---
Rock outcrop-----	---	---	---	---

Table 7.--Forest productivity--Continued

Map symbol and soil name	Potential productivity			Trees to manage
	Common trees	Site index	Volume of wood fiber cu ft/ac	
453: Sig-----	quaking aspen----- Rocky Mountain Douglas-fir----- white fir----- ponderosa pine-----	46 --- --- --- ---	21 0 --- 0	quaking aspen, Rocky Mountain Douglas-fir
Rock outcrop-----	---	---	---	---
Snowdon-----	quaking aspen----- Rocky Mountain Douglas-fir----- white fir----- Engelmann's spruce-- subalpine fir-----	62 --- --- --- 70 66	34 0 0 63 57	quaking aspen, Rocky Mountain Douglas-fir
454: Snowdon-----	Engelmann's spruce-- subalpine fir----- quaking aspen-----	70 66 62	63 57 34	Engelmann's spruce, subalpine fir, lodgepole pine
Sig-----	Engelmann's spruce-- subalpine fir----- quaking aspen-----	63 64 46	53 55 21	Engelmann's spruce, subalpine fir, lodgepole pine
Rock outcrop-----	---	---	---	---
493: Badland-----	---	---	---	---
494: Pits, gravel-----	---	---	---	---
495: Riverwash-----	---	---	---	---
496: Rock outcrop-----	---	---	---	---
497: Rubble land-----	---	---	---	---
498: Slickens-----	---	---	---	---
499: Water-----	---	---	---	---
500: Dolores-----	ponderosa pine-----	60	46	ponderosa pine
Fivepine-----	ponderosa pine-----	67	52	ponderosa pine
501: Fivepine-----	ponderosa pine----- Rocky Mountain juniper-----	67 --- ---	52 0	ponderosa pine
Nortez-----	---	---	---	---

Table 7.--Forest productivity--Continued

Map symbol and soil name	Potential productivity			Trees to manage
	Common trees	Site index	Volume of wood fiber	
			cu ft/ac	
503:				
Ormiston-----	ponderosa pine-----	60	46	ponderosa pine
Fivepine-----	ponderosa pine-----	67	52	ponderosa pine
	Rocky Mountain	---	0	
	juniper-----			
504:				
Jemco-----	ponderosa pine-----	74	60	ponderosa pine
	quaking aspen-----	---	0	
Detra-----	ponderosa pine-----	74	60	ponderosa pine
Beje-----	ponderosa pine-----	64	50	ponderosa pine
505:				
Moento-----	---	---	---	---
506:				
Moento-----	---	---	---	---
Detra-----	---	---	---	---
Jemco-----	---	---	---	---
508:				
Herm-----	ponderosa pine-----	72	58	ponderosa pine
Pagoda-----	ponderosa pine-----	66	51	ponderosa pine
509:				
Burnson, dry-----	ponderosa pine-----	60	46	ponderosa pine
	Rocky Mountain	---	---	
	juniper-----	---	---	
	twoneedle pinyon----	---	---	
510:				
Jemco-----	ponderosa pine-----	74	60	ponderosa pine
	quaking aspen-----	---	0	
Moento-----	ponderosa pine-----	55	42	ponderosa pine,
	quaking aspen-----	---	---	quaking aspen
511:				
Granath-----	ponderosa pine-----	77	64	ponderosa pine
Fughes-----	ponderosa pine-----	80	69	ponderosa pine
512:				
Wetherill-----	---	---	---	---
513:				
Maudrey-----	ponderosa pine-----	75	62	ponderosa pine
	quaking aspen-----	68	38	
Tombac-----	ponderosa pine-----	74	60	ponderosa pine
	quaking aspen-----	68	38	
525:				
Arabrab-----	twoneedle pinyon----	40	0	---
	Utah juniper-----	40	0	

Table 7.--Forest productivity--Continued

Map symbol and soil name	Potential productivity			Trees to manage
	Common trees	Site index	Volume of wood fiber cu ft/ac	
526: Lonecone-----	---	---	---	---
527: Ormiston-----	twoneedle pinyon--- Rocky Mountain juniper-----	50 --- ---	0 0 ---	---
Beje-----	twoneedle pinyon--- Rocky Mountain juniper-----	40 --- ---	0 0 ---	---
552: Burnson-----	ponderosa pine-----	80	69	ponderosa pine
553: Burnson-----	ponderosa pine-----	80	69	ponderosa pine
Herm-----	ponderosa pine-----	72	57	ponderosa pine
571: Mancos-----	quaking aspen-----	48	23	quaking aspen
Skisams-----	---	---	---	---
Skutum-----	quaking aspen-----	75	43	quaking aspen
572: Sudduth-----	---	---	---	---
600: Valto-----	ponderosa pine----- Rocky Mountain Douglas-fir----- white fir-----	65 65 --- ---	50 50 0 ---	ponderosa pine
Rock outcrop-----	---	---	---	---
601: Weminuche-----	Engelmann's spruce-- subalpine fir----- white fir----- Rocky Mountain Douglas-fir----- quaking aspen-----	80 66 48 82 --- ---	76 57 86 72 0 ---	Engelmann's spruce, subalpine fir, white fir, lodgepole pine, Rocky Mountain Douglas-fir
602: Weminuche-----	Engelmann's spruce-- subalpine fir----- white fir----- Rocky Mountain Douglas-fir----- quaking aspen-----	80 66 48 82 --- ---	76 57 86 72 0 ---	Engelmann's spruce, subalpine fir, white fir, lodgepole pine, Rocky Mountain Douglas-fir
603: Weminuche-----	Engelmann's spruce-- subalpine fir----- white fir----- Rocky Mountain Douglas-fir----- quaking aspen-----	80 66 48 82 --- ---	76 57 86 72 0 ---	Engelmann's spruce, subalpine fir, white fir, lodgepole pine, Rocky Mountain Douglas-fir

Table 7.--Forest productivity--Continued

Map symbol and soil name	Potential productivity			Trees to manage
	Common trees	Site index	Volume of wood fiber	
			cu ft/ac	
603: Anvik-----	quaking aspen----- white fir----- Engelmann's spruce-- subalpine fir-----	66 60 87 65	43 129 43 57	quaking aspen, white fir
605: Nordicol-----	Rocky Mountain Douglas-fir----- white fir----- quaking aspen----- Engelmann's spruce-- ponderosa pine-----	80 55 68 85 78	69 109 38 83 65	Rocky Mountain Douglas-fir, white fir, lodgepole pine
606: Snowdon-----	Engelmann's spruce-- subalpine fir----- quaking aspen-----	72 66 62	65 57 34	Engelmann's spruce, subalpine fir
Needleton-----	Engelmann's spruce-- subalpine fir----- quaking aspen-----	84 80 80	82 76 48	Engelmann's spruce, subalpine fir
607: Graysill-----	quaking aspen-----	69	38	quaking aspen
Scotch-----	quaking aspen-----	62	34	quaking aspen
608: Scotch-----	Engelmann's spruce-- subalpine fir----- quaking aspen-----	71 68 62	64 60 34	Engelmann's spruce, subalpine fir, lodgepole pine
Graysill-----	Engelmann's spruce-- subalpine fir----- quaking aspen-----	85 74 69	83 68 38	Engelmann's spruce, lodgepole pine
609: Hourglass-----	---	---	---	---
Wander-----	---	---	---	---
610: Wander-----	---	---	---	---
Hotter-----	---	---	---	---
Hourglass-----	---	---	---	---
611: Goldbug-----	ponderosa pine----- Rocky Mountain Douglas-fir-----	70 --- ---	55 0 ---	ponderosa pine
612: Haviland-----	Engelmann's spruce-- subalpine fir----- quaking aspen-----	90 85 80	91 83 48	Engelmann's spruce, subalpine fir, lodgepole pine

Table 7.--Forest productivity--Continued

Map symbol and soil name	Potential productivity			Trees to manage
	Common trees	Site index	Volume of wood fiber cu ft/ac	
612: Graysill-----	Engelmann's spruce-- subalpine fir----- quaking aspen-----	85 74 69	83 68 38	Engelmann's spruce, subalpine fir, lodgepole pine
615: Haviland-----	Engelmann's spruce-- subalpine fir----- quaking aspen-----	90 85 80	91 83 48	Engelmann's spruce, subalpine fir, lodgepole pine
616: Furtlewis-----	ponderosa pine-----	69	54	ponderosa pine
617: Shawa-----	ponderosa pine-----	78	65	ponderosa pine
618: Nordicol-----	ponderosa pine----- white fir----- Rocky Mountain Douglas-fir----- quaking aspen----- Engelmann's spruce--	78 55 80 68 85	65 109 69 38 83	lodgepole pine, Rocky Mountain Douglas-fir
Valto-----	ponderosa pine----- white fir-----	65 ---	50 0	ponderosa pine
619: Nordicol-----	Rocky Mountain Douglas-fir----- Engelmann's spruce-- subalpine fir----- white fir----- ponderosa pine-----	78 85 78 55 78	65 83 73 109 65	Rocky Mountain Douglas-fir, Engelmann's spruce, subalpine fir, lodgepole pine
620: Caviness-----	quaking aspen-----	80	48	quaking aspen
621: Granturk-----	---	---	---	---
622: Granturk-----	---	---	---	---
Rock outcrop-----	---	---	---	---
623: Chris-----	Engelmann's spruce-- subalpine fir----- white fir----- Rocky Mountain Douglas-fir----- ponderosa pine-----	89 82 60 63 65	89 79 128 49 50	Engelmann's spruce, subalpine fir, ponderosa pine, lodgepole pine
Nordicol-----	quaking aspen----- white fir-----	82 60	50 128	quaking aspen, white fir

Table 7.--Forest productivity--Continued

Map symbol and soil name	Potential productivity			Trees to manage
	Common trees	Site index	Volume of wood fiber cu ft/ac	
699:				
Haplocryolls-----	quaking aspen-----	65	36	quaking aspen
	Engelmann's spruce--	80	46	
	Rocky Mountain	60	46	
	Douglas-fir-----			
Rubble land-----	---	---	---	---
700:				
Bradfield-----	---	---	---	---
703:				
Narraguinnep-----	---	---	---	---
704:				
Gladlow-----	---	---	---	---
Rock outcrop-----	---	---	---	---
Ruko-----	---	---	---	---
705:				
Helmet-----	quaking aspen-----	84	52	quaking aspen,
	Engelmann's spruce--	96	100	Engelmann's
	subalpine fir-----	85	83	spruce, subalpine
	white fir-----	40	64	fir
	Rocky Mountain	---	0	
	Douglas-fir-----			
706:				
Narraguinnep-----	---	---	---	---
707:				
Teedown-----	quaking aspen-----	80	48	quaking aspen
Nordicol-----	quaking aspen-----	82	50	quaking aspen
708:				
Helmet-----	Engelmann's spruce--	96	100	Engelmann's spruce,
	subalpine fir-----	85	83	subalpine fir,
	quaking aspen-----	84	52	lodgepole pine
	white fir-----	40	64	
	Rocky Mountain	---	0	
	Douglas-fir-----			
709:				
Teedown-----	quaking aspen-----	80	48	quaking aspen
710:				
Sili-----	twoneedle pinyon----	60	0	---
	Utah juniper-----	60	0	
Zigzag-----	twoneedle pinyon----	40	0	---
	Utah juniper-----	---	0	
711:				
Sili-----	---	---	---	---

Table 7.--Forest productivity--Continued

Map symbol and soil name	Potential productivity			Trees to manage
	Common trees	Site index	Volume of wood fiber cu ft/ac	
714: Helmet-----	Engelmann's spruce-- subalpine fir----- quaking aspen----- white fir----- Rocky Mountain Douglas-fir-----	96 85 84 40 --- ---	100 83 52 64 0	Engelmann's spruce, subalpine fir, quaking aspen, lodgepole pine
718: Narraguinnep-----	---	---	---	---
Gladlow-----	---	---	---	---
720: Zigzag-----	twoneedle pinyon--- Utah juniper-----	40 ---	0 0	---
Rock outcrop-----	---	---	---	---
723: Zigzag-----	twoneedle pinyon--- Utah juniper-----	40 ---	0 0	---
Rock outcrop-----	---	---	---	---
725: Shawa-----	---	---	---	---
727: Teedown-----	quaking aspen-----	80	48	quaking aspen
Nordicol-----	quaking aspen-----	82	50	quaking aspen
730: Baird Hollow-----	quaking aspen----- Engelmann's spruce-- subalpine fir-----	65 85 78	36 83 73	quaking aspen
Nordicol-----	quaking aspen----- white fir----- Engelmann's spruce-- subalpine fir----- Rocky Mountain Douglas-fir-----	82 55 85 78 80	50 109 83 73 69	Engelmann's spruce, subalpine fir, Rocky Mountain Douglas-fir, lodgepole pine
Ryman-----	quaking aspen-----	67	37	quaking aspen
731: Ryman-----	quaking aspen-----	67	37	quaking aspen
Adel-----	quaking aspen-----	66	36	quaking aspen
732: Adel-----	---	---	---	---
Quazar-----	---	---	---	---
733: Adel-----	quaking aspen-----	66	36	quaking aspen
Bucklon-----	---	---	---	---

Table 7.--Forest productivity--Continued

Map symbol and soil name	Potential productivity			Trees to manage
	Common trees	Site index	Volume of wood fiber	
			cu ft/ac	
734:				
Ryman-----	quaking aspen-----	67	37	quaking aspen
Clayburn-----	---	---	---	---
740:				
Cowtown-----	Engelmann's spruce-- subalpine fir-----	80 75	76 69	Engelmann's spruce, subalpine fir, lodgepole pine
Scout-----	Engelmann's spruce-- subalpine fir-----	72 69	65 61	Engelmann's spruce, subalpine fir, lodgepole pine
741:				
Cowtown-----	subalpine fir----- Engelmann's spruce--	75 80	69 76	Engelmann's spruce, subalpine fir, lodgepole pine
Scout-----	subalpine fir----- Engelmann's spruce--	69 72	61 65	Engelmann's spruce, subalpine fir, lodgepole pine
750:				
Archuleta-----	ponderosa pine-----	45	34	ponderosa pine
Sheek-----	ponderosa pine----- Rocky Mountain Douglas-fir-----	75 75	62 62	ponderosa pine
801:				
Fughes-----	ponderosa pine-----	80	69	ponderosa pine
Sheek-----	ponderosa pine-----	61	47	ponderosa pine
802:				
Argiustolls-----	ponderosa pine----- Rocky Mountain Douglas-fir----- Rocky Mountain juniper----- twoneedle pinyon----	80 75 --- --- ---	69 62 0 0 0	ponderosa pine
Haplustalfs-----	ponderosa pine----- Rocky Mountain Douglas-fir----- Rocky Mountain juniper----- twoneedle pinyon----	80 75 --- --- ---	69 62 0 0 0	ponderosa pine
Rock outcrop-----	---	---	---	---
804:				
Wauquie-----	twoneedle pinyon---- Utah juniper-----	40 ---	0 0	---
Dolcan-----	twoneedle pinyon---- Utah juniper-----	30 ---	0 0	---
Rock outcrop-----	---	---	---	---

Table 7.--Forest productivity--Continued

Map symbol and soil name	Potential productivity			Trees to manage
	Common trees	Site index	Volume of wood fiber cu ft/ac	
805: Shawa-----	quaking aspen-----	60	32	quaking aspen
Fughes-----	quaking aspen-----	60	32	quaking aspen
806: Shawa-----	quaking aspen-----	60	32	quaking aspen
Fughes-----	quaking aspen-----	60	32	quaking aspen
809: Argiustolls-----	Rocky Mountain Douglas-fir-----	75	62	Rocky Mountain Douglas-fir
	Engelmann's spruce--	---	0	
	subalpine fir-----	---	0	
	quaking aspen-----	---	0	
Haplustalfs-----	ponderosa pine-----	80	69	Rocky Mountain
	Rocky Mountain Douglas-fir-----	75	62	Douglas-fir
	Rocky Mountain juniper-----	---	0	
813: Fughes-----	ponderosa pine-----	90	85	ponderosa pine
814: Leaps-----	---	---	---	---
Hofly-----	---	---	---	---
815: Behanco-----	quaking aspen-----	69	38	quaking aspen,
	Engelmann's spruce--	92	94	Engelmann's
	subalpine fir-----	87	86	spruce, subalpine
	white fir-----	60	128	fir
Powderhorn family-----	quaking aspen-----	63	34	quaking aspen,
	Engelmann's spruce--	80	76	Engelmann's
	subalpine fir-----	69	61	spruce, subalpine fir
816: Storm-----	Engelmann's spruce--	84	82	Engelmann's spruce,
	subalpine fir-----	80	76	subalpine fir,
	quaking aspen-----	---	---	lodgepole pine
826: Ute-----	---	---	---	---
Frisco-----	Engelmann's spruce--	80	76	Engelmann's spruce,
	subalpine fir-----	73	66	subalpine fir, lodgepole pine
830: Dressel-----	quaking aspen-----	70	39	quaking aspen
Jersey-----	quaking aspen-----	70	39	quaking aspen

Table 7.--Forest productivity--Continued

Map symbol and soil name	Potential productivity			Trees to manage
	Common trees	Site index	Volume of wood fiber	
			cu ft/ac	
832: Storm-----	Engelmann's spruce-- subalpine fir-----	84 80	82 76	Engelmann's spruce, subalpine fir, lodgepole pine
834: Haycamp-----	Engelmann's spruce-- subalpine fir----- quaking aspen-----	90 90 70	91 91 39	Engelmann spruce, subalpine fir, lodgepole pine
Jersey-----	quaking aspen-----	70	39	quaking aspen
835: Brumley-----	twoneedle pinyon---- Utah juniper-----	--- ---	--- ---	---
860: Granath-----	---	---	---	---
Nortez-----	---	---	---	---
861: Morapos-----	---	---	---	---
862: Granath-----	---	---	---	---
Dolores-----	---	---	---	---
Fivepine-----	ponderosa pine----- Rocky Mountain juniper-----	67 ---	52 0	ponderosa pine
863: Granath-----	---	---	---	---
Ormiston-----	---	---	---	---
Fivepine-----	ponderosa pine----- Rocky Mountain juniper-----	67 ---	52 0	ponderosa pine
890: Tamarron-----	Engelmann's spruce-- subalpine fir----- quaking aspen-----	78 82 68	73 79 38	Engelmann spruce, subalpine fir, lodgepole pine
Frisco-----	Engelmann's spruce-- subalpine fir----- quaking aspen-----	80 73 90	76 66 59	Engelmann's spruce, subalpine fir, lodgepole pine
891: Tamarron-----	Engelmann's spruce-- subalpine fir----- quaking aspen-----	78 82 68	73 79 38	Engelmann's spruce, subalpine fir, lodgepole pine
Frisco-----	Engelmann's spruce-- quaking aspen----- subalpine fir-----	80 --- 73	72 0 72	Engelmann's spruce, subalpine fir, lodgepole pine

Table 7.--Forest productivity--Continued

Map symbol and soil name	Potential productivity			Trees to manage
	Common trees	Site index	Volume of wood fiber cu ft/ac	
901: Granath-----	---	---	---	---
Zoltay-----	---	---	---	---
Nortez-----	---	---	---	---
903: Anvik-----	quaking aspen----- white fir----- Engelmann's spruce-- subalpine fir----- Rocky Mountain Douglas-fir-----	66 60 87 65 88	36 129 86 56 82	white fir, Rocky Mountain Douglas- fir, Engelmann's spruce, quaking aspen, lodgepole pine
904: Beje-----	twoneedle pinyon--- Utah juniper-----	40 ---	--- ---	---
905: Cryaquolls-----	---	---	---	---
906: Archuleta-----	ponderosa pine-----	45	34	ponderosa pine
907: Archuleta-----	ponderosa pine-----	45	34	ponderosa pine
Sanchez-----	ponderosa pine-----	45	34	ponderosa pine
908: Adel-----	---	---	---	---
909: Adel-----	quaking aspen-----	66	36	quaking aspen
917: Chris-----	white fir----- Engelmann's spruce-- subalpine fir----- ponderosa pine----- quaking aspen-----	60 89 82 65 60	129 89 79 50 32	Engelmann's spruce, subalpine fir, white fir, lodgepole pine
919: Clayburn-----	---	---	---	---
920: Clayburn-----	Rocky Mountain Douglas-fir----- quaking aspen----- Engelmann's spruce-- white fir-----	75 70 --- 65	62 39 --- 145	quaking aspen, white fir, Rocky Mountain Douglas- fir, Engelmann's spruce
926: Ustolls-----	ponderosa pine-----	60	46	ponderosa pine
Rock outcrop-----	---	---	---	---
930: Fortlewis-----	ponderosa pine-----	65	50	ponderosa pine

Table 7.--Forest productivity--Continued

Map symbol and soil name	Potential productivity			Trees to manage
	Common trees	Site index	Volume of wood fiber cu ft/ac	
945:				
Nizhoni-----	twoneedle pinyon----	---	---	---
	Utah juniper-----	---	---	
Arabrab-----	twoneedle pinyon----	40	0	---
	Utah juniper-----	---	0	
Rock outcrop-----	---	---	---	---
950:				
Pescar-----	---	---	---	---
951:				
Endoaquolls-----	---	---	---	---
955:				
Umbarg-----	---	---	---	---
Winner-----	---	---	---	---
Tesajo-----	---	---	---	---
956:				
Ormiston-----	---	---	---	---
Granath-----	---	---	---	---
958:				
Sheek-----	ponderosa pine-----	75	62	ponderosa pine
	Rocky Mountain juniper-----	---	---	
	Rocky Mountain Douglas-fir-----	75	62	
Archuleta-----	ponderosa pine-----	45	34	ponderosa pine
	Rocky Mountain juniper-----	---	46	
Rock outcrop-----	---	---	---	---
959:				
Granath-----	---	---	---	---
965:				
Narraguinnep-----	---	---	---	---
Dapoin-----	---	---	---	---
966:				
Cryaquepts-----	---	---	---	---
967:				
Quazar-----	---	---	---	---
Cryaquolls-----	---	---	---	---
Cryohemists-----	---	---	---	---
968:				
Nortez-----	---	---	---	---

Table 7.--Forest productivity--Continued

Map symbol and soil name	Potential productivity			Trees to manage
	Common trees	Site index	Volume of wood fiber cu ft/ac	
968: Granath-----	---	---	---	---
969: Nortez-----	---	---	---	---
Fivepine-----	ponderosa pine-----	67	52	ponderosa pine
972: Pagoda-----	ponderosa pine-----	66	51	ponderosa pine
Coulterg-----	ponderosa pine-----	68	53	ponderosa pine
Wiggler-----	ponderosa pine-----	70	55	ponderosa pine
989: Ryman-----	---	---	---	---
990: Ryman, warm-----	---	---	---	---
992: Gladlow-----	---	---	---	---
996: Zoltay-----	---	---	---	---
997: Zigzag-----	twoneedle pinyon----	90	14	---
	Utah juniper-----	---	0	
Bodot-----	---	---	---	---
Rock outcrop-----	---	---	---	---

Table 8.--Forestland management

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the limitation. See text for further explanation of ratings in this table.)

Map symbol and soil name	Pct. of map unit	Limitations affecting construction of haul roads and log landings		Suitability for log landings		Soil rutting hazard	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
1: Bradfield-----	45	Moderate Strength	0.50	Moderately suited Strength	0.50	Severe Strength	1.00
Narraguinnep-----	40	Moderate Strength	0.50	Moderately suited Strength	0.50	Severe Strength	1.00
2: Hesperus-----	85	Slight		Moderately suited Strength	0.50	Severe Strength	1.00
10: Lillings-----	85	Moderate Strength	0.50	Moderately suited Strength	0.50	Severe Strength	1.00
12: Shawa-----	80	Moderate Strength	0.50	Moderately suited Strength	0.50	Severe Strength	1.00
13: Fughes-----	85	Slight		Moderately suited Strength Slope	0.50 0.50	Severe Strength	1.00
14: Dalmatian-----	35	Moderate Strength	0.50	Moderately suited Strength	0.50	Severe Strength	1.00
Apmay-----	35	Moderate Strength	0.50	Moderately suited Strength	0.50	Severe Strength	1.00
Schrader-----	15	Moderate Flooding Strength Wetness	0.50 0.50 0.50	Moderately suited Flooding Strength	0.50 0.50	Severe Strength	1.00

Table 8.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Limitations affecting construction of haul roads and log landings		Suitability for log landings		Soil rutting hazard	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
15: Umbarg-----	80	Moderate Strength	0.50	Moderately suited Strength	0.50	Severe Strength	1.00
16: Payter-----	85	Slight		Moderately suited Slope	0.50	Moderate Strength	0.50
17: Fluvaquents-----	55	Severe Flooding Strength Sandiness Wetness	1.00 0.50 0.50 0.50	Poorly suited Flooding Strength Wetness	1.00 0.50 0.50	Severe Strength	1.00
Haplustolls-----	30	Moderate Strength	0.50	Well suited		Moderate Strength	0.50
18: Endoaquolls-----	45	Severe Flooding Wetness Strength	1.00 0.50 0.50	Poorly suited Flooding Strength	1.00 0.50	Severe Strength	1.00
Ustifluvents-----	40	Moderate Flooding Strength	0.50 0.50	Moderately suited Flooding Strength	0.50 0.50	Severe Strength	1.00
20: Mavreeso-----	75	Moderate Slope Strength	0.50 0.50	Poorly suited Slope Strength	1.00 0.50	Severe Strength	1.00
51: Clayburn-----	55	Moderate Slope	0.50	Poorly suited Slope Strength	1.00 0.50	Severe Strength	1.00
Hourglass-----	35	Moderate Slope	0.50	Poorly suited Slope Strength	1.00 0.50	Severe Strength	1.00

Table 8.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Limitations affecting construction of haul roads and log landings		Suitability for log landings		Soil rutting hazard	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
52: Ohwiler-----	80	Moderate Slope Strength	0.50 0.50	Poorly suited Slope Strength	1.00 0.50	Severe Strength	1.00
53: Cryaquolls-----	50	Moderate Wetness Flooding Strength	0.50 0.50 0.50	Moderately suited Wetness Flooding Strength	0.50 0.50 0.50	Severe Strength	1.00
Typic Cryaquents----	35	Severe Wetness Flooding Strength	1.00 0.50 0.50	Moderately suited Wetness Flooding Strength	0.50 0.50 0.50	Severe Strength	1.00
54: Quazar-----	90	Moderate Stoniness Strength	0.50 0.50	Moderately suited Slope Rock fragments Strength	0.50 0.50 0.50	Moderate Strength	0.50
56: Typic Cryaquents----	35	Severe Wetness Flooding Strength	1.00 0.50 0.50	Moderately suited Wetness Flooding Strength	0.50 0.50 0.50	Severe Strength	1.00
Cryaquolls-----	30	Moderate Wetness Flooding Strength	0.50 0.50 0.50	Moderately suited Wetness Flooding Strength	0.50 0.50 0.50	Severe Strength	1.00
Cryofibrists-----	25	Severe Flooding Wetness	1.00 1.00	Poorly suited Flooding Wetness	1.00 1.00	Moderate Wetness	0.50
57: Howardsville-----	80	Moderate Sandiness	0.50	Moderately suited Sandiness	0.50	Severe Strength	1.00

Table 8.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Limitations affecting construction of haul roads and log landings		Suitability for log landings		Soil rutting hazard	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
58: Fughes-----	55	Moderate Slope Strength	0.50 0.50	Poorly suited Slope Strength	1.00 0.50	Severe Strength	1.00
Herm-----	35	Moderate Slope Strength	0.50 0.50	Poorly suited Slope Strength	1.00 0.50	Severe Strength	1.00
59: Fughes-----	45	Severe Slope Strength	1.00 0.50	Poorly suited Slope Strength	1.00 0.50	Severe Strength	1.00
Herm-----	35	Severe Slope Strength	1.00 0.50	Poorly suited Slope Strength	1.00 0.50	Severe Strength	1.00
60: Grimes-----	90	Slight		Well suited		Slight Strength	0.10
110: Sheek-----	45	Moderate Slope Strength	0.50 0.50	Poorly suited Slope Strength	1.00 0.50	Moderate Strength	0.50
Ormiston-----	35	Severe Stoniness Strength	1.00 0.50	Moderately suited Slope Strength	0.50 0.50	Severe Strength	1.00
111: Fardraw-----	80	Moderate Strength	0.50	Moderately suited Slope Strength	0.50 0.50	Severe Strength	1.00
113: Dolores-----	80	Severe Slope Strength	1.00 0.50	Poorly suited Slope Strength	1.00 0.50	Severe Strength	1.00

Table 8.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Limitations affecting construction of haul roads and log landings		Suitability for log landings		Soil rutting hazard	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
150: Silex-----	70	Severe Restrictive layer Slope	1.00 0.50	Poorly suited Slope Strength	1.00 0.50	Severe Strength	1.00
Rock outcrop-----	20	Not rated		Not rated		Not rated	
151: Frisco-----	80	Moderate Slope	0.50	Poorly suited Slope Strength	1.00 0.50	Severe Strength	1.00
152: Frisco-----	80	Severe Slope	1.00	Poorly suited Slope Strength	1.00 0.50	Severe Strength	1.00
153: Frisco-----	50	Moderate Slope	0.50	Poorly suited Slope Strength	1.00 0.50	Severe Strength	1.00
Horsethief-----	30	Moderate Slope	0.50	Poorly suited Slope Strength	1.00 0.50	Severe Strength	1.00
154: Frisco-----	60	Severe Slope	1.00	Poorly suited Slope Strength	1.00 0.50	Severe Strength	1.00
Horsethief-----	25	Severe Slope Strength	1.00 0.50	Poorly suited Slope Strength	1.00 0.50	Severe Strength	1.00
155: Tuckerville-----	70	Severe Slope	1.00	Poorly suited Slope	1.00	Severe Strength	1.00
Rock outcrop-----	20	Not rated		Not rated		Not rated	

Table 8.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Limitations affecting construction of haul roads and log landings		Suitability for log landings		Soil rutting hazard	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
156: Sponsor-----	60	Moderate Slope Strength	0.50 0.50	Poorly suited Slope Strength	1.00 0.50	Severe Strength	1.00
Tuckerville-----	30	Moderate Slope Strength	0.50 0.50	Poorly suited Slope Strength	1.00 0.50	Severe Strength	1.00
157: Sponsor-----	60	Moderate Slope Strength	0.50 0.50	Poorly suited Slope Rock fragments Strength	1.00 0.50 0.50	Severe Strength	1.00
Tuckerville-----	30	Moderate Slope Strength	0.50 0.50	Poorly suited Slope Rock fragments Strength	1.00 0.50 0.50	Severe Strength	1.00
158: Sponsor-----	60	Severe Slope Strength	1.00 0.50	Poorly suited Slope Strength	1.00 0.50	Severe Strength	1.00
Tuckerville-----	30	Severe Slope	1.00	Poorly suited Slope Strength	1.00 0.50	Severe Strength	1.00
159: Tuckerville-----	80	Severe Slope	1.00	Poorly suited Slope	1.00	Slight Strength	0.10
160: Anvik-----	40	Moderate Slope Strength	0.50 0.50	Poorly suited Slope Strength	1.00 0.50	Severe Strength	1.00
Tuckerville-----	35	Moderate Slope Strength	0.50 0.50	Poorly suited Slope Strength	1.00 0.50	Severe Strength	1.00

Table 8.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Limitations affecting construction of haul roads and log landings		Suitability for log landings		Soil rutting hazard	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
161: Needleton-----	85	Severe Stoniness	1.00	Moderately suited Slope	0.50	Slight Strength	0.10
162: Quazar-----	45	Severe Slope Stoniness	1.00 0.50	Poorly suited Slope Rock fragments Strength	1.00 0.50 0.50	Moderate Strength	0.50
Varden-----	40	Severe Slope Stoniness	1.00 0.50	Poorly suited Slope Rock fragments	1.00 0.50	Slight Strength	0.10
163: Clayburn-----	50	Moderate Slope	0.50	Poorly suited Slope Strength	1.00 0.50	Severe Strength	1.00
Hourglass-----	35	Moderate Slope	0.50	Poorly suited Slope Strength	1.00 0.50	Severe Strength	1.00
164: Hourglass-----	50	Severe Slope Strength	1.00 0.50	Poorly suited Slope Strength	1.00 0.50	Severe Strength	1.00
Bucklon-----	25	Severe Slope Strength	1.00 0.50	Poorly suited Slope Strength	1.00 0.50	Severe Strength	1.00
Wander-----	15	Severe Slope Strength	1.00 0.50	Poorly suited Slope Strength	1.00 0.50	Moderate Strength	0.50
165: Pinacol-----	85	Severe Stoniness Strength	1.00 0.50	Moderately suited Strength Slope	0.50 0.50	Severe Strength	1.00

Table 8.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Limitations affecting construction of haul roads and log landings		Suitability for log landings		Soil rutting hazard	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
166: Pinacol-----	80	Moderate Slope	0.50	Poorly suited Slope Strength	1.00 0.50	Severe Strength	1.00
250: Snowdon-----	55	Severe Slope Stoniness	1.00 0.50	Poorly suited Slope Rock fragments Strength	1.00 0.50 0.50	Moderate Strength	0.50
Rock outcrop-----	25	Not rated		Not rated		Not rated	
251: Rock outcrop-----	60	Not rated		Not rated		Not rated	
Snowdon-----	25	Severe Slope Stoniness	1.00 0.50	Poorly suited Slope Rock fragments Strength	1.00 0.50 0.50	Moderate Strength	0.50
254: Typic Cryorthents---	50	Severe Slope	1.00	Poorly suited Slope	1.00	Slight Strength	0.10
Rubble land-----	30	Not rated		Not rated		Not rated	
330: Needleton-----	85	Moderate Slope	0.50	Poorly suited Slope	1.00	Slight Strength	0.10
331: Needleton-----	80	Severe Slope Strength	1.00 0.50	Poorly suited Slope	1.00	Slight Strength	0.10
332: Horsethief-----	55	Severe Slope	1.00	Poorly suited Slope Rock fragments	1.00 0.50	Slight Strength	0.10

Table 8.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Limitations affecting construction of haul roads and log landings		Suitability for log landings		Soil rutting hazard	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
332: Needleton-----	35	Severe Slope Strength	1.00 0.50	Poorly suited Slope Rock fragments	1.00 0.50	Slight Strength	0.10
333: Henson, south aspect	85	Moderate Slope	0.50	Poorly suited Slope	1.00	Moderate Strength	0.50
334: Henson, south aspect	80	Severe Slope	1.00	Poorly suited Slope	1.00	Moderate Strength	0.50
335: Whitecross-----	55	Severe Restrictive layer Slope	1.00 0.50	Poorly suited Slope	1.00	Slight Strength	0.10
Rock outcrop-----	30	Not rated		Not rated		Not rated	
336: Whitecross, south aspect-----	50	Severe Slope Stoniness	1.00 0.50	Poorly suited Slope Rock fragments	1.00 1.00	Slight Strength	0.10
Rock outcrop-----	25	Not rated		Not rated		Not rated	
337: Whitecross-----	60	Severe Slope Stoniness	1.00 0.50	Poorly suited Slope Rock fragments	1.00 1.00	Slight Strength	0.10
Rock outcrop-----	25	Not rated		Not rated		Not rated	
338: Henson-----	80	Moderate Slope	0.50	Poorly suited Slope	1.00	Moderate Strength	0.50

Table 8.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Limitations affecting construction of haul roads and log landings		Suitability for log landings		Soil rutting hazard	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
339: Henson-----	80	Severe Slope	1.00	Poorly suited Slope	1.00	Moderate Strength	0.50
340: Moran-----	80	Moderate Slope	0.50	Poorly suited Slope	1.00	Moderate Strength	0.50
341: Moran-----	80	Severe Slope	1.00	Poorly suited Slope	1.00	Moderate Strength	0.50
342: Telluride-----	60	Severe Restrictive layer Slope	1.00 0.50	Poorly suited Slope	1.00	Slight Strength	0.10
Rock outcrop-----	20	Not rated		Not rated		Not rated	
343: Telluride-----	60	Severe Slope	1.00	Poorly suited Slope Strength	1.00 0.50	Moderate Strength	0.50
Rock outcrop-----	25	Not rated		Not rated		Not rated	
345: Papaspila-----	85	Moderate Strength	0.50	Moderately suited Slope Strength	0.50 0.50	Severe Strength	1.00
350: Flygare-----	45	Severe Stoniness	1.00	Moderately suited Slope	0.50	Moderate Strength	0.50
Foidel-----	40	Moderate Strength	0.50	Moderately suited Slope Strength	0.50 0.50	Severe Strength	1.00
355: Flygare-----	45	Moderate Slope Strength	0.50 0.50	Poorly suited Slope	1.00	Moderate Strength	0.50

Table 8.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Limitations affecting construction of haul roads and log landings		Suitability for log landings		Soil rutting hazard	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
355: Foidel-----	40	Moderate Slope Strength	0.50 0.50	Poorly suited Slope Strength	1.00 0.50	Severe Strength	1.00
360: Blacksnag-----	45	Slight		Moderately suited Slope	0.50	Slight Strength	0.10
Peeler-----	40	Slight		Moderately suited Slope Strength	0.50 0.50	Severe Strength	1.00
361: Blacksnag-----	45	Moderate Slope	0.50	Poorly suited Slope	1.00	Slight Strength	0.10
Peeler-----	40	Moderate Slope Strength	0.50 0.50	Poorly suited Slope Strength	1.00 0.50	Severe Strength	1.00
374: Mavreeso-----	35	Severe Slope Strength	1.00 0.50	Poorly suited Slope Strength	1.00 0.50	Severe Strength	1.00
Valto-----	30	Severe Slope	1.00	Poorly suited Slope	1.00	Slight Strength	0.10
Rock outcrop-----	20	Not rated		Not rated		Not rated	
375: Needleton-----	55	Severe Stoniness	1.00	Moderately suited Slope	0.50	Slight Strength	0.10
Snowdon-----	30	Severe Stoniness Restrictive layer	1.00 1.00	Moderately suited Slope Strength	0.50 0.50	Severe Strength	1.00
376: Needleton-----	80	Moderate Slope Strength	0.50 0.50	Poorly suited Slope Strength	1.00 0.50	Severe Strength	1.00

Table 8.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Limitations affecting construction of haul roads and log landings		Suitability for log landings		Soil rutting hazard	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
378: Needleton-----	65	Severe Slope Strength	1.00 0.50	Poorly suited Slope Strength	1.00 0.50	Severe Strength	1.00
Haviland-----	25	Severe Slope Strength	1.00 0.50	Poorly suited Slope Strength	1.00 0.50	Severe Strength	1.00
380: Snowdon-----	50	Severe Restrictive layer Slope	1.00 0.50	Poorly suited Slope Strength	1.00 0.50	Severe Strength	1.00
Rock outcrop-----	35	Not rated		Not rated		Not rated	
381: Needleton-----	45	Severe Slope Strength	1.00 0.50	Poorly suited Slope	1.00	Slight Strength	0.10
Snowdon-----	30	Severe Slope	1.00	Poorly suited Slope Strength	1.00 0.50	Moderate Strength	0.50
Rock outcrop-----	15	Not rated		Not rated		Not rated	
382: Needleton-----	50	Moderate Slope	0.50	Poorly suited Slope	1.00	Slight Strength	0.10
Snowdon-----	30	Severe Restrictive layer Slope	1.00 0.50	Poorly suited Slope Strength	1.00 0.50	Moderate Strength	0.50
383: Haviland-----	50	Moderate Slope Strength	0.50 0.50	Poorly suited Slope Strength	1.00 0.50	Severe Strength	1.00
Needleton-----	35	Moderate Slope	0.50	Poorly suited Slope	1.00	Slight Strength	0.10

Table 8.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Limitations affecting construction of haul roads and log landings		Suitability for log landings		Soil rutting hazard	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
386: Needleton-----	70	Severe Slope Strength	1.00 0.50	Poorly suited Slope Rock fragments	1.00 0.50	Slight Strength	0.10
387: Frisco-----	50	Severe Slope	1.00	Poorly suited Slope Strength	1.00 0.50	Moderate Strength	0.50
Quazar-----	40	Severe Slope	1.00	Poorly suited Slope Strength	1.00 0.50	Moderate Strength	0.50
388: Frisco-----	50	Moderate Slope	0.50	Poorly suited Slope Strength	1.00 0.50	Moderate Strength	0.50
Quazar-----	45	Moderate Slope Strength Sandiness	0.50 0.50 0.50	Poorly suited Slope Strength	1.00 0.50	Moderate Strength	0.50
389: Seitz-----	85	Moderate Slope Strength	0.50 0.50	Poorly suited Slope	1.00	Slight Strength	0.10
390: Clayburn-----	40	Severe Slope	1.00	Poorly suited Slope Strength	1.00 0.50	Severe Strength	1.00
Heisspitz-----	30	Severe Slope Strength	1.00 0.50	Poorly suited Slope Strength	1.00 0.50	Severe Strength	1.00
391: Runlett-----	50	Severe Restrictive layer Slope Strength	1.00 0.50 0.50	Poorly suited Slope Strength	1.00 0.50	Severe Strength	1.00

Table 8.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Limitations affecting construction of haul roads and log landings		Suitability for log landings		Soil rutting hazard	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
391: Sessions-----	30	Moderate Slope Strength	0.50 0.50	Poorly suited Slope Strength	1.00 0.50	Severe Strength	1.00
392: Runlett-----	30	Severe Restrictive layer Slope Strength	1.00 0.50 0.50	Poorly suited Slope Strength	1.00 0.50	Severe Strength	1.00
Needleton-----	30	Moderate Slope Strength	0.50 0.50	Poorly suited Slope Strength	1.00 0.50	Severe Strength	1.00
Sessions-----	20	Moderate Slope Strength	0.50 0.50	Poorly suited Slope Strength	1.00 0.50	Severe Strength	1.00
393: Heisspitz-----	50	Severe Restrictive layer Strength	1.00 0.50	Moderately suited Slope Strength	0.50 0.50	Severe Strength	1.00
Sessions-----	25	Moderate Strength	0.50	Moderately suited Slope Strength	0.50 0.50	Severe Strength	1.00
Rock outcrop-----	20	Not rated		Not rated		Not rated	
394: Clayburn-----	55	Moderate Slope	0.50	Poorly suited Slope Strength	1.00 0.50	Severe Strength	1.00
Heisspitz-----	30	Severe Restrictive layer Slope Strength	1.00 0.50 0.50	Poorly suited Slope Strength	1.00 0.50	Severe Strength	1.00

Table 8.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Limitations affecting construction of haul roads and log landings		Suitability for log landings		Soil rutting hazard	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
395: Scout-----	85	Moderate Slope	0.50	Poorly suited Slope Strength	1.00 0.50	Moderate Strength	0.50
396: Scout-----	85	Severe Slope	1.00	Poorly suited Slope Strength	1.00 0.50	Moderate Strength	0.50
399: Kite-----	40	Severe Restrictive layer Slope	1.00 0.50	Poorly suited Slope	1.00	Moderate Strength	0.50
Rock outcrop-----	35	Not rated		Not rated		Not rated	
450: Lostlake-----	45	Severe Slope	1.00	Poorly suited Slope Strength	1.00 0.50	Severe Strength	1.00
Rock outcrop-----	35	Not rated		Not rated		Not rated	
452: Dystrocryepts-----	55	Severe Restrictive layer Slope	1.00 0.50	Poorly suited Slope	1.00	Moderate Strength	0.50
Rock outcrop-----	35	Not rated		Not rated		Not rated	
453: Sig-----	40	Severe Restrictive layer Slope Strength	1.00 0.50 0.50	Poorly suited Slope Rock fragments Strength	1.00 0.50 0.50	Severe Strength	1.00
Rock outcrop-----	30	Not rated		Not rated		Not rated	
Snowdon-----	20	Severe Restrictive layer Slope	1.00 0.50	Poorly suited Slope Rock fragments	1.00 0.50	Slight Strength	0.10

Table 8.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Limitations affecting construction of haul roads and log landings		Suitability for log landings		Soil rutting hazard	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
454: Snowdon-----	35	Severe Restrictive layer Slope	1.00 0.50	Poorly suited Slope Rock fragments	1.00 0.50	Slight Strength	0.10
Sig-----	30	Severe Restrictive layer Slope Strength	1.00 0.50 0.50	Poorly suited Slope Rock fragments Strength	1.00 0.50 0.50	Severe Strength	1.00
Rock outcrop-----	25	Not rated		Not rated		Not rated	
493: Badland-----	90	Not rated		Not rated		Not rated	
494: Pits, gravel-----	100	Not rated		Not rated		Not rated	
495: Riverwash-----	85	Not rated		Not rated		Not rated	
496: Rock outcrop-----	70	Not rated		Not rated		Not rated	
497: Rubble land-----	80	Not rated		Not rated		Not rated	
498: Slickens-----	80	Not rated		Not rated		Not rated	
499: Water-----	100	Not rated		Not rated		Not rated	
500: Dolores-----	50	Severe Stoniness	1.00	Moderately suited Slope Rock fragments Strength	0.50 0.50 0.50	Severe Strength	1.00
Fivepine-----	35	Severe Restrictive layer Strength	1.00 0.50	Moderately suited Slope Strength	0.50 0.50	Moderate Strength	0.50

Table 8.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Limitations affecting construction of haul roads and log landings		Suitability for log landings		Soil rutting hazard	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
501: Fivepine-----	60	Severe Restrictive layer Strength	1.00 0.50	Moderately suited Slope Strength	0.50 0.50	Moderate Strength	0.50
Nortez-----	25	Moderate Restrictive layer Strength	0.50 0.50	Moderately suited Slope Strength	0.50 0.50	Severe Strength	1.00
503: Ormiston-----	50	Severe Stoniness Strength	1.00 0.50	Moderately suited Slope Rock fragments Strength	0.50 0.50 0.50	Severe Strength	1.00
Fivepine-----	35	Severe Restrictive layer Strength	1.00 0.50	Moderately suited Slope Strength	0.50 0.50	Moderate Strength	0.50
504: Jemco-----	40	Moderate Restrictive layer	0.50	Moderately suited Slope Strength	0.50 0.50	Severe Strength	1.00
Detra-----	30	Moderate Strength	0.50	Moderately suited Slope Strength	0.50 0.50	Severe Strength	1.00
Beje-----	20	Severe Restrictive layer Strength	1.00 0.50	Moderately suited Slope Strength	0.50 0.50	Severe Strength	1.00
505: Moento-----	80	Moderate Restrictive layer Strength	0.50 0.50	Moderately suited Slope Strength	0.50 0.50	Severe Strength	1.00
506: Moento-----	35	Moderate Restrictive layer Strength	0.50 0.50	Moderately suited Slope Strength	0.50 0.50	Severe Strength	1.00

Table 8.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Limitations affecting construction of haul roads and log landings		Suitability for log landings		Soil rutting hazard	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
506: Detra-----	30	Moderate Strength	0.50	Moderately suited Slope Strength	0.50 0.50	Severe Strength	1.00
Jemco-----	20	Moderate Restrictive layer Strength	0.50 0.50	Moderately suited Slope Strength	0.50 0.50	Severe Strength	1.00
508: Herm-----	50	Moderate Strength	0.50	Moderately suited Slope Strength	0.50 0.50	Severe Strength	1.00
Pagoda-----	35	Moderate Strength	0.50	Moderately suited Slope Strength	0.50 0.50	Severe Strength	1.00
509: Burnson, dry-----	80	Slight		Moderately suited Slope Strength	0.50 0.50	Severe Strength	1.00
510: Jemco-----	60	Moderate Restrictive layer Strength	0.50 0.50	Moderately suited Slope Strength	0.50 0.50	Severe Strength	1.00
Moento-----	25	Moderate Restrictive layer Strength	0.50 0.50	Moderately suited Slope Strength	0.50 0.50	Severe Strength	1.00
511: Granath-----	50	Moderate Strength	0.50	Moderately suited Slope Strength	0.50 0.50	Severe Strength	1.00
Fughes-----	35	Moderate Strength	0.50	Moderately suited Slope Strength	0.50 0.50	Severe Strength	1.00

Table 8.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Limitations affecting construction of haul roads and log landings		Suitability for log landings		Soil rutting hazard	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
512: Wetherill-----	85	Moderate Strength	0.50	Moderately suited Strength	0.50	Severe Strength	1.00
513: Maudrey-----	50	Moderate Strength	0.50	Moderately suited Slope Strength	0.50 0.50	Severe Strength	1.00
Tombac-----	35	Moderate Strength	0.50	Moderately suited Slope Strength	0.50 0.50	Severe Strength	1.00
525: Arabrab-----	85	Severe Restrictive layer	1.00	Moderately suited Slope Strength	0.50 0.50	Severe Strength	1.00
526: Lonecone-----	80	Moderate Strength	0.50	Moderately suited Strength	0.50	Severe Strength	1.00
527: Ormiston-----	50	Moderate Slope Restrictive layer Strength	0.50 0.50 0.50	Poorly suited Slope Rock fragments Strength	1.00 0.50 0.50	Severe Strength	1.00
Beje-----	35	Severe Restrictive layer Slope Strength	1.00 0.50 0.50	Poorly suited Slope Rock fragments Strength	1.00 0.50 0.50	Severe Strength	1.00
552: Burnson-----	80	Slight		Moderately suited Slope Strength	0.50 0.50	Severe Strength	1.00
553: Burnson-----	50	Moderate Slope Restrictive layer Strength	0.50 0.50 0.50	Poorly suited Slope Strength	1.00 0.50	Severe Strength	1.00

Table 8.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Limitations affecting construction of haul roads and log landings		Suitability for log landings		Soil rutting hazard	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
553: Herm-----	30	Moderate Slope Strength	0.50 0.50	Poorly suited Slope Strength	1.00 0.50	Severe Strength	1.00
571: Mancos-----	40	Moderate Restrictive layer Strength	0.50 0.50	Moderately suited Slope Strength	0.50 0.50	Severe Strength	1.00
Skisams-----	35	Severe Restrictive layer Strength	1.00 0.50	Moderately suited Slope Strength	0.50 0.50	Severe Strength	1.00
Skutum-----	20	Moderate Strength	0.50	Moderately suited Slope Strength	0.50 0.50	Severe Strength	1.00
572: Sudduth-----	85	Slight		Moderately suited Slope Strength	0.50 0.50	Severe Strength	1.00
600: Valto-----	50	Severe Slope	1.00	Poorly suited Slope	1.00	Slight Strength	0.10
Rock outcrop-----	35	Not rated		Not rated		Not rated	
601: Weminuche-----	85	Severe Slope Strength	1.00 0.50	Poorly suited Slope	1.00	Severe Strength	1.00
602: Weminuche-----	85	Moderate Slope	0.50	Poorly suited Slope	1.00	Severe Strength	1.00
603: Weminuche-----	55	Severe Slope Strength	1.00 0.50	Poorly suited Slope	1.00	Severe Strength	1.00

Table 8.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Limitations affecting construction of haul roads and log landings		Suitability for log landings		Soil rutting hazard	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
603: Anvik-----	25	Severe Slope Strength	1.00 0.50	Poorly suited Slope Strength	1.00 0.50	Severe Strength	1.00
605: Nordicol-----	80	Moderate Slope	0.50	Poorly suited Slope	1.00	Slight Strength	0.10
606: Snowdon-----	50	Severe Slope Stoniness	1.00 0.50	Poorly suited Slope Rock fragments Strength	1.00 1.00 0.50	Moderate Strength	0.50
Needleton-----	35	Severe Slope Stoniness Strength	1.00 0.50 0.50	Poorly suited Slope Rock fragments	1.00 1.00	Slight Strength	0.10
607: Graysill-----	45	Severe Slope Strength	1.00 0.50	Poorly suited Slope Strength	1.00 0.50	Severe Strength	1.00
Scotch-----	35	Severe Slope Strength	1.00 0.50	Poorly suited Slope Strength	1.00 0.50	Severe Strength	1.00
608: Scotch-----	45	Severe Slope Strength	1.00 0.50	Poorly suited Slope Strength	1.00 0.50	Severe Strength	1.00
Graysill-----	35	Severe Slope Strength	1.00 0.50	Poorly suited Slope Strength	1.00 0.50	Severe Strength	1.00
609: Hourglass-----	50	Moderate Slope	0.50	Poorly suited Slope Strength	1.00 0.50	Severe Strength	1.00

Table 8.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Limitations affecting construction of haul roads and log landings		Suitability for log landings		Soil rutting hazard	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
609: Wander-----	35	Moderate Slope Strength	0.50 0.50	Poorly suited Slope Strength	1.00 0.50	Moderate Strength	0.50
610: Wander-----	45	Severe Slope Stoniness Strength	1.00 0.50 0.50	Poorly suited Slope Rock fragments Strength	1.00 0.50 0.50	Moderate Strength	0.50
Hotter-----	30	Severe Slope Stoniness	1.00 0.50	Poorly suited Slope Rock fragments	1.00 0.50	Slight Strength	0.10
Hourglass-----	15	Severe Slope Strength	1.00 0.50	Poorly suited Slope Strength	1.00 0.50	Severe Strength	1.00
611: Goldbug-----	85	Moderate Stoniness Slope	0.50 0.50	Poorly suited Slope Rock fragments	1.00 0.50	Slight Strength	0.10
612: Haviland-----	50	Moderate Slope Strength	0.50 0.50	Poorly suited Slope Strength	1.00 0.50	Severe Strength	1.00
Graysill-----	35	Moderate Restrictive layer Slope Strength	0.50 0.50 0.50	Poorly suited Slope Strength	1.00 0.50	Severe Strength	1.00
615: Haviland-----	75	Severe Slope Strength	1.00 0.50	Poorly suited Slope Strength	1.00 0.50	Severe Strength	1.00
616: Furtlewis-----	85	Moderate Restrictive layer	0.50	Moderately suited Slope	0.50	Slight Strength	0.10

Table 8.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Limitations affecting construction of haul roads and log landings		Suitability for log landings		Soil rutting hazard	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
617: Shawa-----	85	Moderate Strength	0.50	Poorly suited Slope Strength	1.00 0.50	Severe Strength	1.00
618: Nordicol-----	50	Severe Slope	1.00	Poorly suited Slope	1.00	Slight Strength	0.10
Valto-----	35	Severe Slope	1.00	Poorly suited Slope	1.00	Slight Strength	0.10
619: Nordicol-----	80	Severe Slope Stoniness	1.00 0.50	Poorly suited Slope Rock fragments	1.00 1.00	Slight Strength	0.10
620: Caviness-----	90	Moderate Slope Restrictive layer Strength	0.50 0.50 0.50	Poorly suited Slope Strength	1.00 0.50	Severe Strength	1.00
621: Granturk-----	85	Severe Restrictive layer Slope Strength	1.00 0.50 0.50	Poorly suited Slope Strength	1.00 0.50	Severe Strength	1.00
622: Granturk-----	60	Severe Slope Strength	1.00 0.50	Poorly suited Slope Strength	1.00 0.50	Severe Strength	1.00
Rock outcrop-----	30	Not rated		Not rated		Not rated	
623: Chris-----	50	Severe Slope	1.00	Poorly suited Slope Strength	1.00 0.50	Severe Strength	1.00
Nordicol-----	40	Moderate Slope	0.50	Poorly suited Slope	1.00	Slight Strength	0.10

Table 8.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Limitations affecting construction of haul roads and log landings		Suitability for log landings		Soil rutting hazard	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
699: Haplocryolls-----	40	Severe Slope	1.00	Poorly suited Slope Strength	1.00 0.50	Moderate Strength	0.50
Rubble land-----	40	Not rated		Not rated		Not rated	
700: Bradfield-----	90	Moderate Strength	0.50	Moderately suited Strength	0.50	Severe Strength	1.00
703: Narraguinnep-----	80	Severe Slope Strength	1.00 0.50	Poorly suited Slope Strength	1.00 0.50	Severe Strength	1.00
704: Gladlow-----	30	Moderate Strength	0.50	Moderately suited Slope Strength	0.50 0.50	Severe Strength	1.00
Rock outcrop-----	30	Not rated		Not rated		Not rated	
Ruko-----	20	Moderate Strength	0.50	Moderately suited Slope Strength	0.50 0.50	Severe Strength	1.00
705: Helmet-----	80	Moderate Strength	0.50	Moderately suited Slope Strength	0.50 0.50	Severe Strength	1.00
706: Narraguinnep-----	85	Moderate Strength	0.50	Moderately suited Slope Strength	0.50 0.50	Severe Strength	1.00
707: Teedown-----	50	Moderate Strength	0.50	Moderately suited Slope Strength	0.50 0.50	Severe Strength	1.00

Table 8.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Limitations affecting construction of haul roads and log landings		Suitability for log landings		Soil rutting hazard	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
707: Nordicol-----	35	Severe Stoniness	1.00	Moderately suited Slope	0.50	Slight Strength	0.10
708: Helmet-----	80	Severe Slope Strength	1.00 0.50	Poorly suited Slope Strength	1.00 0.50	Severe Strength	1.00
709: Teedown-----	85	Moderate Strength	0.50	Moderately suited Slope Strength	0.50 0.50	Severe Strength	1.00
710: Sili-----	50	Moderate Strength	0.50	Moderately suited Slope Strength	0.50 0.50	Severe Strength	1.00
Zigzag-----	30	Moderate Strength	0.50	Moderately suited Slope Strength	0.50 0.50	Severe Strength	1.00
711: Sili-----	85	Moderate Strength	0.50	Moderately suited Slope Strength	0.50 0.50	Severe Strength	1.00
714: Helmet-----	80	Moderate Slope Strength	0.50 0.50	Poorly suited Slope Strength	1.00 0.50	Severe Strength	1.00
718: Narraguinnep-----	50	Moderate Slope Strength	0.50 0.50	Poorly suited Slope Strength	1.00 0.50	Severe Strength	1.00
Gladlow-----	40	Moderate Slope Strength	0.50 0.50	Poorly suited Slope Strength	1.00 0.50	Severe Strength	1.00

Table 8.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Limitations affecting construction of haul roads and log landings		Suitability for log landings		Soil rutting hazard	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
720: Zigzag-----	45	Severe Slope Strength	1.00 0.50	Poorly suited Slope Strength	1.00 0.50	Severe Strength	1.00
Rock outcrop-----	35	Not rated		Not rated		Not rated	
723: Zigzag-----	50	Moderate Slope Strength	0.50 0.50	Poorly suited Slope Strength	1.00 0.50	Severe Strength	1.00
Rock outcrop-----	40	Not rated		Not rated		Not rated	
725: Shawa-----	85	Moderate Slope Strength	0.50 0.50	Poorly suited Slope Strength	1.00 0.50	Severe Strength	1.00
727: Teedown-----	50	Moderate Slope Strength	0.50 0.50	Poorly suited Slope Strength	1.00 0.50	Severe Strength	1.00
Nordicol-----	35	Moderate Slope	0.50	Poorly suited Slope	1.00	Slight Strength	0.10
730: Baird Hollow-----	35	Moderate Slope Strength	0.50 0.50	Poorly suited Slope Strength	1.00 0.50	Severe Strength	1.00
Nordicol-----	30	Moderate Slope	0.50	Poorly suited Slope	1.00	Slight Strength	0.10
Ryman-----	25	Moderate Slope Strength	0.50 0.50	Poorly suited Slope Strength	1.00 0.50	Severe Strength	1.00
731: Ryman-----	60	Moderate Strength	0.50	Moderately suited Strength	0.50	Severe Strength	1.00

Table 8.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Limitations affecting construction of haul roads and log landings		Suitability for log landings		Soil rutting hazard	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
731: Adel-----	30	Moderate Strength	0.50	Moderately suited Slope Strength	0.50 0.50	Severe Strength	1.00
732: Adel-----	50	Moderate Slope Strength	0.50 0.50	Poorly suited Slope Strength	1.00 0.50	Severe Strength	1.00
Quazar-----	40	Moderate Slope Strength Sandiness	0.50 0.50 0.50	Poorly suited Slope Strength	1.00 0.50	Moderate Strength	0.50
733: Adel-----	70	Moderate Slope Strength	0.50 0.50	Poorly suited Slope Strength	1.00 0.50	Severe Strength	1.00
Bucklon-----	20	Moderate Slope Strength	0.50 0.50	Poorly suited Slope Strength	1.00 0.50	Severe Strength	1.00
734: Ryman-----	60	Moderate Strength	0.50	Moderately suited Slope Strength	0.50 0.50	Severe Strength	1.00
Clayburn-----	30	Moderate Strength	0.50	Moderately suited Slope Strength	0.50 0.50	Severe Strength	1.00
740: Cowtown-----	50	Moderate Slope Strength	0.50 0.50	Poorly suited Slope Strength	1.00 0.50	Severe Strength	1.00
Scout-----	30	Moderate Slope	0.50	Poorly suited Slope Strength	1.00 0.50	Moderate Strength	0.50

Table 8.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Limitations affecting construction of haul roads and log landings		Suitability for log landings		Soil rutting hazard	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
741: Cowtown-----	45	Severe Slope Strength	1.00 0.50	Poorly suited Slope Strength	1.00 0.50	Severe Strength	1.00
Scout-----	35	Severe Slope Strength	1.00 0.50	Poorly suited Slope Strength	1.00 0.50	Moderate Strength	0.50
750: Archuleta-----	50	Severe Slope Strength	1.00 0.50	Poorly suited Slope Rock fragments Strength	1.00 0.50 0.50	Moderate Strength	0.50
Sheek-----	35	Severe Slope Strength	1.00 0.50	Poorly suited Slope Rock fragments	1.00 0.50	Slight Strength	0.10
801: Fughes-----	50	Moderate Slope Stoniness Strength	0.50 0.50 0.50	Poorly suited Slope Rock fragments Strength	1.00 0.50 0.50	Severe Strength	1.00
Sheek-----	35	Moderate Slope Stoniness Strength	0.50 0.50 0.50	Poorly suited Slope Rock fragments Strength	1.00 1.00 0.50	Moderate Strength	0.50
802: Argiustolls-----	30	Severe Slope Stoniness Strength	1.00 0.50 0.50	Poorly suited Slope Rock fragments	1.00 0.50	Slight Strength	0.10
Haplustalfs-----	30	Severe Slope Stoniness Strength	1.00 0.50 0.50	Poorly suited Slope Rock fragments	1.00 1.00	Slight Strength	0.10
Rock outcrop-----	25	Not rated		Not rated		Not rated	

Table 8.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Limitations affecting construction of haul roads and log landings		Suitability for log landings		Soil rutting hazard	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
804: Wauquie-----	40	Severe Slope Stoniness Strength	1.00 0.50 0.50	Poorly suited Slope Rock fragments	1.00 1.00	Slight Strength	0.10
Dolcan-----	25	Severe Slope Stoniness Strength	1.00 0.50 0.50	Poorly suited Slope Rock fragments Strength	1.00 1.00 0.50	Severe Strength	1.00
Rock outcrop-----	20	Not rated		Not rated		Not rated	
805: Shawa-----	50	Moderate Slope Strength	0.50 0.50	Poorly suited Slope Strength	1.00 0.50	Severe Strength	1.00
Fughes-----	40	Moderate Slope Strength	0.50 0.50	Poorly suited Slope Strength	1.00 0.50	Severe Strength	1.00
806: Shawa-----	45	Severe Slope Strength	1.00 0.50	Poorly suited Slope Rock fragments Strength	1.00 0.50 0.50	Severe Strength	1.00
Fughes-----	35	Severe Slope Strength	1.00 0.50	Poorly suited Slope Rock fragments Strength	1.00 0.50 0.50	Severe Strength	1.00
809: Argiustolls-----	45	Severe Slope Strength	1.00 0.50	Poorly suited Slope	1.00	Slight Strength	0.10
Haplustalfs-----	40	Severe Slope Strength	1.00 0.50	Poorly suited Slope	1.00	Slight Strength	0.10

Table 8.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Limitations affecting construction of haul roads and log landings		Suitability for log landings		Soil rutting hazard	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
813: Fughes-----	80	Moderate Slope Strength	0.50 0.50	Poorly suited Slope Strength	1.00 0.50	Severe Strength	1.00
814: Leaps-----	50	Moderate Slope Strength	0.50 0.50	Poorly suited Slope Strength	1.00 0.50	Severe Strength	1.00
Hofly-----	35	Moderate Slope Strength	0.50 0.50	Poorly suited Slope Strength	1.00 0.50	Severe Strength	1.00
815: Behanco-----	45	Slight		Moderately suited Slope	0.50	Severe Strength	1.00
Powderhorn family---	40	Moderate Strength	0.50	Moderately suited Slope Strength	0.50 0.50	Severe Strength	1.00
816: Storm-----	85	Moderate Slope	0.50	Poorly suited Slope	1.00	Slight Strength	0.10
826: Ute-----	50	Severe Wetness Strength	1.00 0.50	Poorly suited Wetness Strength	1.00 0.50	Severe Strength Wetness	1.00 0.50
Frisco-----	40	Severe Stoniness Strength	1.00 0.50	Poorly suited Slope Strength	1.00 0.50	Severe Strength	1.00
830: Dressel-----	55	Severe Slope	1.00	Poorly suited Slope Strength	1.00 0.50	Severe Strength	1.00
Jersey-----	30	Severe Slope	1.00	Poorly suited Slope	1.00	Slight Strength	0.10

Table 8.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Limitations affecting construction of haul roads and log landings		Suitability for log landings		Soil rutting hazard	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
832: Storm-----	85	Slight		Moderately suited Slope	0.50	Slight Strength	0.10
834: Haycamp-----	60	Severe Slope Strength	1.00 0.50	Poorly suited Slope Strength	1.00 0.50	Moderate Strength	0.50
Jersey-----	25	Severe Slope	1.00	Poorly suited Slope	1.00	Slight Strength	0.10
835: Brumley-----	85	Slight		Well suited		Severe Strength	1.00
860: Granath-----	55	Moderate Strength	0.50	Moderately suited Slope Strength	0.50 0.50	Severe Strength	1.00
Nortez-----	30	Moderate Restrictive layer Strength	0.50 0.50	Moderately suited Slope Strength	0.50 0.50	Severe Strength	1.00
861: Morapos-----	80	Slight		Moderately suited Slope Strength	0.50 0.50	Severe Strength	1.00
862: Granath-----	40	Moderate Strength	0.50	Moderately suited Slope Strength	0.50 0.50	Severe Strength	1.00
Dolores-----	25	Severe Stoniness	1.00	Moderately suited Slope Strength	0.50 0.50	Severe Strength	1.00
Fivepine-----	20	Severe Restrictive layer Strength	1.00 0.50	Moderately suited Slope Strength	0.50 0.50	Moderate Strength	0.50

Table 8.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Limitations affecting construction of haul roads and log landings		Suitability for log landings		Soil rutting hazard	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
863: Granath-----	40	Moderate Strength	0.50	Moderately suited Slope Strength	0.50 0.50	Severe Strength	1.00
Ormiston-----	25	Severe Stoniness Strength	1.00 0.50	Moderately suited Slope Rock fragments Strength	0.50 0.50 0.50	Severe Strength	1.00
Fivepine-----	20	Severe Restrictive layer Strength	1.00 0.50	Moderately suited Slope Strength	0.50 0.50	Moderate Strength	0.50
890: Tamarron-----	45	Severe Slope	1.00	Poorly suited Slope Strength	1.00 0.50	Severe Strength	1.00
Frisco-----	35	Severe Slope	1.00	Poorly suited Slope Strength	1.00 0.50	Severe Strength	1.00
891: Tamarron-----	45	Moderate Slope	0.50	Poorly suited Slope Strength	1.00 0.50	Severe Strength	1.00
Frisco-----	40	Moderate Slope	0.50	Poorly suited Slope Strength	1.00 0.50	Severe Strength	1.00
901: Granath-----	45	Moderate Strength	0.50	Moderately suited Strength Slope	0.50 0.50	Severe Strength	1.00
Zoltay-----	25	Moderate Strength	0.50	Moderately suited Slope Strength	0.50 0.50	Severe Strength	1.00

Table 8.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Limitations affecting construction of haul roads and log landings		Suitability for log landings		Soil rutting hazard	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
901: Nortez-----	20	Moderate Restrictive layer Strength	0.50 0.50	Moderately suited Slope Strength	0.50 0.50	Severe Strength	1.00
903: Anvik-----	85	Moderate Slope Strength	0.50 0.50	Poorly suited Slope Strength	1.00 0.50	Severe Strength	1.00
904: Beje-----	85	Severe Restrictive layer Strength	1.00 0.50	Poorly suited Slope	1.00	Moderate Strength	0.50
905: Cryaquolls-----	95	Moderate Wetness Flooding Strength	0.50 0.50 0.50	Moderately suited Wetness Flooding Strength	0.50 0.50 0.50	Severe Strength	1.00
906: Archuleta-----	80	Severe Slope Strength	1.00 0.50	Poorly suited Slope Strength	1.00 0.50	Severe Strength	1.00
907: Archuleta-----	45	Severe Slope Strength	1.00 0.50	Poorly suited Slope Strength	1.00 0.50	Severe Strength	1.00
Sanchez-----	30	Severe Restrictive layer Slope Strength	1.00 0.50 0.50	Poorly suited Slope	1.00	Slight Strength	0.10
908: Adel-----	85	Moderate Slope Strength	0.50 0.50	Poorly suited Slope Strength	1.00 0.50	Severe Strength	1.00

Table 8.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Limitations affecting construction of haul roads and log landings		Suitability for log landings		Soil rutting hazard	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
909: Adel-----	90	Severe Slope Strength	1.00 0.50	Poorly suited Slope Strength	1.00 0.50	Severe Strength	1.00
917: Chris-----	85	Moderate Slope Strength	0.50 0.50	Poorly suited Slope Strength	1.00 0.50	Severe Strength	1.00
919: Clayburn-----	90	Moderate Strength	0.50	Moderately suited Strength Slope	0.50 0.50	Severe Strength	1.00
920: Clayburn-----	85	Moderate Slope Strength	0.50 0.50	Poorly suited Slope Strength	1.00 0.50	Moderate Strength	0.50
926: Ustolls-----	45	Severe Slope Strength	1.00 0.50	Poorly suited Slope Strength	1.00 0.50	Moderate Strength	0.50
Rock outcrop-----	40	Not rated		Not rated		Not rated	
930: Fortlewis-----	45	Moderate Restrictive layer Slope	0.50 0.50	Poorly suited Slope	1.00	Slight Strength	0.10
Rock outcrop-----	35	Not rated		Not rated		Not rated	
934: Ceek-----	85	Moderate Slope Strength	0.50 0.50	Poorly suited Slope Strength	1.00 0.50	Moderate Strength	0.50
937: Herm-----	85	Moderate Slope Strength	0.50 0.50	Poorly suited Slope Strength	1.00 0.50	Severe Strength	1.00

Table 8.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Limitations affecting construction of haul roads and log landings		Suitability for log landings		Soil rutting hazard	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
939: Ohwiler-----	90	Moderate Strength	0.50	Moderately suited Strength Slope	0.50 0.50	Severe Strength	1.00
940: Horsethief-----	85	Severe Slope	1.00	Poorly suited Slope	1.00	Slight Strength	0.10
942: Fivepine-----	50	Severe Restrictive layer Strength	1.00 0.50	Moderately suited Slope Strength	0.50 0.50	Severe Strength	1.00
Pino-----	35	Moderate Restrictive layer Strength	0.50 0.50	Moderately suited Slope Strength	0.50 0.50	Severe Strength	1.00
945: Nizhoni-----	35	Severe Restrictive layer Slope	1.00 0.50	Poorly suited Slope Strength	1.00 0.50	Severe Strength	1.00
Arabrab-----	30	Severe Restrictive layer Strength	1.00 0.50	Moderately suited Slope	0.50	Moderate Strength	0.50
Rock outcrop-----	30	Not rated		Not rated		Not rated	
950: Pescar-----	80	Severe Flooding Wetness	1.00 0.50	Poorly suited Flooding	1.00	Moderate Strength	0.50
951: Endoaquolls-----	90	Severe Flooding Wetness Strength	1.00 0.50 0.50	Poorly suited Flooding Strength Wetness	1.00 0.50 0.50	Severe Strength	1.00
955: Umbarg-----	35	Moderate Strength	0.50	Moderately suited Strength	0.50	Severe Strength	1.00

Table 8.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Limitations affecting construction of haul roads and log landings		Suitability for log landings		Soil rutting hazard	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
955: Winner-----	30	Moderate Wetness Strength	0.50 0.50	Moderately suited Strength	0.50	Severe Strength	1.00
Tesajo-----	20	Slight		Well suited		Moderate Strength	0.50
956: Ormiston-----	50	Severe Stoniness	1.00	Moderately suited Rock fragments Strength Slope	0.50 0.50 0.50	Moderate Strength	0.50
Granath-----	35	Moderate Strength	0.50	Moderately suited Strength Slope	0.50 0.50	Severe Strength	1.00
958: Sheek-----	35	Severe Slope Strength	1.00 0.50	Poorly suited Slope	1.00	Slight Strength	0.10
Archuleta-----	30	Severe Slope Strength	1.00 0.50	Poorly suited Slope	1.00	Slight Strength	0.10
Rock outcrop-----	20	Not rated		Not rated		Not rated	
959: Granath-----	90	Moderate Strength	0.50	Moderately suited Strength	0.50	Severe Strength	1.00
965: Naraguinnep-----	55	Moderate Strength	0.50	Moderately suited Slope Strength	0.50 0.50	Severe Strength	1.00
Dapoin-----	30	Moderate Strength	0.50	Moderately suited Slope Strength	0.50 0.50	Severe Strength	1.00

Table 8.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Limitations affecting construction of haul roads and log landings		Suitability for log landings		Soil rutting hazard	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
966: Cryaquepts-----	85	Severe Flooding Wetness Strength Restrictive layer	1.00 0.50 0.50 0.50	Poorly suited Flooding Wetness Strength	1.00 0.50 0.50	Severe Strength	1.00
967: Quazar-----	40	Moderate Slope Strength Sandiness	0.50 0.50 0.50	Poorly suited Slope Strength	1.00 0.50	Moderate Strength	0.50
Cryaquolls-----	25	Moderate Wetness Flooding Strength	0.50 0.50 0.50	Moderately suited Wetness Flooding Strength	0.50 0.50 0.50	Severe Strength	1.00
Cryohemists-----	20	Severe Flooding Wetness Strength	1.00 1.00 0.50	Poorly suited Flooding Wetness Strength	1.00 1.00 0.50	Severe Strength Wetness	1.00 0.50
968: Nortez-----	50	Moderate Strength Restrictive layer	0.50 0.50	Moderately suited Strength Slope	0.50 0.50	Severe Strength	1.00
Granath-----	35	Moderate Strength	0.50	Moderately suited Strength Slope	0.50 0.50	Severe Strength	1.00
969: Nortez-----	45	Moderate Strength Restrictive layer	0.50 0.50	Moderately suited Strength Slope	0.50 0.50	Severe Strength	1.00
Fivepine-----	40	Severe Restrictive layer Strength	1.00 0.50	Moderately suited Strength Slope	0.50 0.50	Severe Strength	1.00

Table 8.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Limitations affecting construction of haul roads and log landings		Suitability for log landings		Soil rutting hazard	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
972: Pagoda-----	35	Moderate Slope Strength	0.50 0.50	Poorly suited Slope Strength	1.00 0.50	Severe Strength	1.00
Coulterg-----	30	Moderate Slope Strength	0.50 0.50	Poorly suited Slope Strength	1.00 0.50	Severe Strength	1.00
Wiggler-----	20	Severe Slope Strength	1.00 0.50	Poorly suited Slope	1.00	Moderate Strength	0.50
989: Ryman-----	90	Moderate Strength	0.50	Moderately suited Slope Strength	0.50 0.50	Severe Strength	1.00
990: Ryman, warm-----	85	Moderate Strength	0.50	Moderately suited Slope Strength	0.50 0.50	Severe Strength	1.00
992: Gladlow-----	85	Moderate Strength	0.50	Moderately suited Slope Strength	0.50 0.50	Severe Strength	1.00
996: Zoltay-----	85	Moderate Strength	0.50	Moderately suited Slope Strength	0.50 0.50	Severe Strength	1.00
997: Zigzag-----	40	Moderate Slope Strength	0.50 0.50	Poorly suited Slope Strength	1.00 0.50	Severe Strength	1.00
Bodot-----	25	Moderate Slope Strength	0.50 0.50	Poorly suited Slope Strength	1.00 0.50	Severe Strength	1.00

Table 8.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Limitations affecting construction of haul roads and log landings		Suitability for log landings		Soil rutting hazard	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
997: Rock outcrop-----	25	Not rated		Not rated		Not rated	

Table 9.--Forestland management

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the limitation. See text for further explanation of ratings in this table.)

Map symbol and soil name	Pct. of map unit	Hazard of off-road or off-trail erosion		Hazard of erosion on roads and trails		Suitability for roads (natural surface)	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
1: Bradfield-----	45	Slight		Slight		Moderately suited Strength	0.50
Narraguinnep-----	40	Slight		Slight		Moderately suited Strength	0.50
2: Hesperus-----	85	Slight		Slight		Moderately suited Strength	0.50
10: Lillings-----	85	Slight		Moderate Slope/erodibility	0.50	Moderately suited Strength	0.50
12: Shawa-----	80	Slight		Moderate Slope/erodibility	0.50	Moderately suited Strength	0.50
13: Fughes-----	85	Slight		Moderate Slope/erodibility	0.50	Moderately suited Strength Slope	0.50 0.50
14: Dalmatian-----	35	Slight		Moderate Slope/erodibility	0.50	Moderately suited Strength	0.50
Apmay-----	35	Slight		Moderate Slope/erodibility	0.50	Moderately suited Strength	0.50
Schrader-----	15	Slight		Moderate Slope/erodibility	0.50	Moderately suited Flooding Strength	0.50 0.50
15: Umbarg-----	80	Slight		Moderate Slope/erodibility	0.50	Moderately suited Strength	0.50

Table 9.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Hazard of off-road or off-trail erosion		Hazard of erosion on roads and trails		Suitability for roads (natural surface)	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
16: Payter-----	85	Slight		Moderate Slope/erodibility	0.50	Moderately suited Slope	0.50
17: Fluvaquents-----	55	Slight		Slight		Poorly suited Flooding Strength Wetness	1.00 0.50 0.50
Haplustolls-----	30	Slight		Moderate Slope/erodibility	0.50	Well suited	
18: Endoaquolls-----	45	Slight		Moderate Slope/erodibility	0.50	Poorly suited Flooding Strength	1.00 0.50
Ustifluvents-----	40	Slight		Moderate Slope/erodibility	0.50	Moderately suited Flooding Strength	0.50 0.50
20: Mavreeso-----	75	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Slope Strength	1.00 0.50
51: Clayburn-----	55	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Slope Strength	1.00 0.50
Hourglass-----	35	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Slope Strength	1.00 0.50
52: Ohwiler-----	80	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Slope Strength	1.00 0.50

Table 9.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Hazard of off-road or off-trail erosion		Hazard of erosion on roads and trails		Suitability for roads (natural surface)	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
53: Cryaquolls-----	50	Slight		Slight		Moderately suited Wetness Flooding Strength	0.50 0.50 0.50
Typic Cryaquents----	35	Slight		Moderate Slope/erodibility	0.50	Moderately suited Wetness Flooding Strength	0.50 0.50 0.50
54: Quazar-----	90	Slight		Moderate Slope/erodibility	0.50	Moderately suited Slope Rock fragments Strength	0.50 0.50 0.50
56: Typic Cryaquents----	35	Slight		Moderate Slope/erodibility	0.50	Moderately suited Wetness Flooding Strength	0.50 0.50 0.50
Cryaquolls-----	30	Slight		Slight		Moderately suited Wetness Flooding Strength	0.50 0.50 0.50
Cryofibrists-----	25	Very severe High organic content	1.00	Very severe High organic content Slope/erodibility	1.00 0.50	Poorly suited Flooding Wetness	1.00 1.00
57: Howardsville-----	80	Slight		Slight		Moderately suited Sandiness	0.50
58: Fughes-----	55	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Slope Strength	1.00 0.50

Table 9.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Hazard of off-road or off-trail erosion		Hazard of erosion on roads and trails		Suitability for roads (natural surface)	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
58: Herm-----	35	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Slope Strength	1.00 0.50
59: Fughes-----	45	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Slope Strength	1.00 0.50
Herm-----	35	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Slope Strength	1.00 0.50
60: Grimes-----	90	Slight		Slight		Well suited	
110: Sheek-----	45	Moderate Slope/erodibility	0.50	Moderate Slope/erodibility	0.50	Poorly suited Slope Strength	1.00 0.50
Ormiston-----	35	Slight		Moderate Slope/erodibility	0.50	Moderately suited Slope Strength	0.50 0.50
111: Fardraw-----	80	Slight		Moderate Slope/erodibility	0.50	Moderately suited Slope Strength	0.50 0.50
113: Dolores-----	80	Severe Slope/erodibility	0.75	Severe Slope/erodibility	0.95	Poorly suited Slope Strength	1.00 0.50
150: Silex-----	70	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Slope Strength	1.00 0.50
Rock outcrop-----	20	Not rated		Not rated		Not rated	

Table 9.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Hazard of off-road or off-trail erosion		Hazard of erosion on roads and trails		Suitability for roads (natural surface)	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
151: Frisco-----	80	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Slope Strength	1.00 0.50
152: Frisco-----	80	Severe Slope/erodibility	0.75	Severe Slope/erodibility	0.95	Poorly suited Slope Strength	1.00 0.50
153: Frisco-----	50	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Slope Strength	1.00 0.50
Horsethief-----	30	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Slope Strength	1.00 0.50
154: Frisco-----	60	Very severe Slope/erodibility	0.95	Severe Slope/erodibility	0.95	Poorly suited Slope Strength	1.00 0.50
Horsethief-----	25	Very severe Slope/erodibility	0.95	Severe Slope/erodibility	0.95	Poorly suited Slope Strength	1.00 0.50
155: Tuckerville-----	70	Severe Slope/erodibility	0.75	Severe Slope/erodibility	0.95	Poorly suited Slope	1.00
Rock outcrop-----	20	Not rated		Not rated		Not rated	
156: Sponsor-----	60	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Slope Strength	1.00 0.50
Tuckerville-----	30	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Slope Strength	1.00 0.50

Table 9.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Hazard of off-road or off-trail erosion		Hazard of erosion on roads and trails		Suitability for roads (natural surface)	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
157: Sponsor-----	60	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Slope Rock fragments Strength	1.00 0.50 0.50
Tuckerville-----	30	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Slope Rock fragments Strength	1.00 0.50 0.50
158: Sponsor-----	60	Severe Slope/erodibility	0.75	Severe Slope/erodibility	0.95	Poorly suited Slope Strength	1.00 0.50
Tuckerville-----	30	Severe Slope/erodibility	0.75	Severe Slope/erodibility	0.95	Poorly suited Slope Strength	1.00 0.50
159: Tuckerville-----	80	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Slope	1.00
160: Anvik-----	40	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Slope Strength	1.00 0.50
Tuckerville-----	35	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Slope Strength	1.00 0.50
161: Needleton-----	85	Slight		Moderate Slope/erodibility	0.50	Moderately suited Slope	0.50
162: Quazar-----	45	Severe Slope/erodibility	0.75	Severe Slope/erodibility	0.95	Poorly suited Slope Rock fragments Strength	1.00 0.50 0.50

Table 9.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Hazard of off-road or off-trail erosion		Hazard of erosion on roads and trails		Suitability for roads (natural surface)	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
162: Varden-----	40	Severe Slope/erodibility	0.75	Severe Slope/erodibility	0.95	Poorly suited Slope Rock fragments	1.00 0.50
163: Clayburn-----	50	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Slope Strength	1.00 0.50
Hourglass-----	35	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Slope Strength	1.00 0.50
164: Hourglass-----	50	Severe Slope/erodibility	0.75	Severe Slope/erodibility	0.95	Poorly suited Slope Strength	1.00 0.50
Bucklon-----	25	Severe Slope/erodibility	0.75	Severe Slope/erodibility	0.95	Poorly suited Slope Strength	1.00 0.50
Wander-----	15	Severe Slope/erodibility	0.75	Severe Slope/erodibility	0.95	Poorly suited Slope Strength	1.00 0.50
165: Pinacol-----	85	Slight		Moderate Slope/erodibility	0.50	Moderately suited Strength Slope	0.50 0.50
166: Pinacol-----	80	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Slope Strength	1.00 0.50
250: Snowdon-----	55	Severe Slope/erodibility	0.75	Severe Slope/erodibility	0.95	Poorly suited Slope Rock fragments Strength	1.00 0.50 0.50

Table 9.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Hazard of off-road or off-trail erosion		Hazard of erosion on roads and trails		Suitability for roads (natural surface)	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
250: Rock outcrop-----	25	Not rated		Not rated		Not rated	
251: Rock outcrop-----	60	Not rated		Not rated		Not rated	
Snowdon-----	25	Very severe Slope/erodibility	0.95	Severe Slope/erodibility	0.95	Poorly suited Slope Rock fragments Strength	1.00 0.50 0.50
254: Typic Cryorthents---	50	Very severe Slope/erodibility	0.95	Severe Slope/erodibility	0.95	Poorly suited Slope	1.00
Rubble land-----	30	Not rated		Not rated		Not rated	
330: Needleton-----	85	Moderate Slope/erodibility	0.50	Moderate Slope/erodibility	0.50	Poorly suited Slope	1.00
331: Needleton-----	80	Severe Slope/erodibility	0.75	Severe Slope/erodibility	0.95	Poorly suited Slope	1.00
332: Horsethief-----	55	Severe Slope/erodibility	0.75	Severe Slope/erodibility	0.95	Poorly suited Slope Rock fragments	1.00 0.50
Needleton-----	35	Severe Slope/erodibility	0.75	Severe Slope/erodibility	0.95	Poorly suited Slope Rock fragments	1.00 0.50
333: Henson, south aspect	85	Moderate Slope/erodibility	0.50	Moderate Slope/erodibility	0.50	Poorly suited Slope	1.00
334: Henson, south aspect	80	Severe Slope/erodibility	0.75	Severe Slope/erodibility	0.95	Poorly suited Slope	1.00

Table 9.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Hazard of off-road or off-trail erosion		Hazard of erosion on roads and trails		Suitability for roads (natural surface)	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
335: Whitcross-----	55	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Slope	1.00
Rock outcrop-----	30	Not rated		Not rated		Not rated	
336: Whitcross, south aspect-----	50	Very severe Slope/erodibility	0.95	Severe Slope/erodibility	0.95	Poorly suited Slope Rock fragments	1.00 1.00
Rock outcrop-----	25	Not rated		Not rated		Not rated	
337: Whitcross-----	60	Very severe Slope/erodibility	0.95	Severe Slope/erodibility	0.95	Poorly suited Slope Rock fragments	1.00 1.00
Rock outcrop-----	25	Not rated		Not rated		Not rated	
338: Henson-----	80	Moderate Slope/erodibility	0.50	Moderate Slope/erodibility	0.50	Poorly suited Slope	1.00
339: Henson-----	80	Severe Slope/erodibility	0.75	Severe Slope/erodibility	0.95	Poorly suited Slope	1.00
340: Moran-----	80	Moderate Slope/erodibility	0.50	Moderate Slope/erodibility	0.50	Poorly suited Slope	1.00
341: Moran-----	80	Severe Slope/erodibility	0.75	Severe Slope/erodibility	0.95	Poorly suited Slope	1.00
342: Telluride-----	60	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Slope	1.00
Rock outcrop-----	20	Not rated		Not rated		Not rated	

Table 9.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Hazard of off-road or off-trail erosion		Hazard of erosion on roads and trails		Suitability for roads (natural surface)	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
343: Telluride-----	60	Very severe Slope/erodibility	0.95	Severe Slope/erodibility	0.95	Poorly suited Slope Strength	1.00 0.50
Rock outcrop-----	25	Not rated		Not rated		Not rated	
345: Papaspila-----	85	Slight		Moderate Slope/erodibility	0.50	Moderately suited Slope Strength	0.50 0.50
350: Flygare-----	45	Slight		Slight		Moderately suited Slope	0.50
Foidel-----	40	Slight		Moderate Slope/erodibility	0.50	Moderately suited Slope Strength	0.50 0.50
355: Flygare-----	45	Moderate Slope/erodibility	0.50	Moderate Slope/erodibility	0.50	Poorly suited Slope	1.00
Foidel-----	40	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Slope Strength	1.00 0.50
360: Blacksnag-----	45	Slight		Slight		Moderately suited Slope	0.50
Peeler-----	40	Slight		Severe Slope/erodibility	0.95	Moderately suited Slope Strength	0.50 0.50
361: Blacksnag-----	45	Moderate Slope/erodibility	0.50	Moderate Slope/erodibility	0.50	Poorly suited Slope	1.00
Peeler-----	40	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Slope Strength	1.00 0.50

Table 9.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Hazard of off-road or off-trail erosion		Hazard of erosion on roads and trails		Suitability for roads (natural surface)	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
374: Mavreeso-----	35	Very severe Slope/erodibility	0.95	Severe Slope/erodibility	0.95	Poorly suited Slope Strength	1.00 0.50
Valto-----	30	Very severe Slope/erodibility	0.95	Severe Slope/erodibility	0.95	Poorly suited Slope	1.00
Rock outcrop-----	20	Not rated		Not rated		Not rated	
375: Needleton-----	55	Slight		Moderate Slope/erodibility	0.50	Moderately suited Slope	0.50
Snowdon-----	30	Slight		Moderate Slope/erodibility	0.50	Moderately suited Slope Strength	0.50 0.50
376: Needleton-----	80	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Slope Strength	1.00 0.50
378: Needleton-----	65	Very severe Slope/erodibility	0.95	Severe Slope/erodibility	0.95	Poorly suited Slope Strength	1.00 0.50
Haviland-----	25	Severe Slope/erodibility	0.75	Severe Slope/erodibility	0.95	Poorly suited Slope Strength	1.00 0.50
380: Snowdon-----	50	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Slope Strength	1.00 0.50
Rock outcrop-----	35	Not rated		Not rated		Not rated	
381: Needleton-----	45	Very severe Slope/erodibility	0.95	Severe Slope/erodibility	0.95	Poorly suited Slope	1.00

Table 9.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Hazard of off-road or off-trail erosion		Hazard of erosion on roads and trails		Suitability for roads (natural surface)	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
381: Snowdon-----	30	Very severe Slope/erodibility	0.95	Severe Slope/erodibility	0.95	Poorly suited Slope Strength	1.00 0.50
Rock outcrop-----	15	Not rated		Not rated		Not rated	
382: Needleton-----	50	Moderate Slope/erodibility	0.50	Moderate Slope/erodibility	0.50	Poorly suited Slope	1.00
Snowdon-----	30	Moderate Slope/erodibility	0.50	Moderate Slope/erodibility	0.50	Poorly suited Slope Strength	1.00 0.50
383: Haviland-----	50	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Slope Strength	1.00 0.50
Needleton-----	35	Moderate Slope/erodibility	0.50	Moderate Slope/erodibility	0.50	Poorly suited Slope	1.00
386: Needleton-----	70	Very severe Slope/erodibility	0.95	Severe Slope/erodibility	0.95	Poorly suited Slope Rock fragments	1.00 0.50
387: Frisco-----	50	Severe Slope/erodibility	0.75	Severe Slope/erodibility	0.95	Poorly suited Slope Strength	1.00 0.50
Quazar-----	40	Severe Slope/erodibility	0.75	Severe Slope/erodibility	0.95	Poorly suited Slope Strength	1.00 0.50
388: Frisco-----	50	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Slope Strength	1.00 0.50

Table 9.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Hazard of off-road or off-trail erosion		Hazard of erosion on roads and trails		Suitability for roads (natural surface)	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
388: Quazar-----	45	Moderate Slope/erodibility	0.50	Moderate Slope/erodibility	0.50	Poorly suited Slope Strength	1.00 0.50
389: Seitz-----	85	Moderate Slope/erodibility	0.50	Moderate Slope/erodibility	0.50	Poorly suited Slope	1.00
390: Clayburn-----	40	Severe Slope/erodibility	0.75	Severe Slope/erodibility	0.95	Poorly suited Slope Strength	1.00 0.50
Heisspitz-----	30	Severe Slope/erodibility	0.75	Severe Slope/erodibility	0.95	Poorly suited Slope Strength	1.00 0.50
391: Runlett-----	50	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Slope Strength	1.00 0.50
Sessions-----	30	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Slope Strength	1.00 0.50
392: Runlett-----	30	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Slope Strength	1.00 0.50
Needleton-----	30	Severe Slope/erodibility	0.75	Severe Slope/erodibility	0.95	Poorly suited Slope Strength	1.00 0.50
Sessions-----	20	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Slope Strength	1.00 0.50

Table 9.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Hazard of off-road or off-trail erosion		Hazard of erosion on roads and trails		Suitability for roads (natural surface)	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
393: Heisspitz-----	50	Slight		Severe Slope/erodibility	0.95	Moderately suited Slope Strength	0.50 0.50
Sessions-----	25	Slight		Moderate Slope/erodibility	0.50	Moderately suited Slope Strength	0.50 0.50
Rock outcrop-----	20	Not rated		Not rated		Not rated	
394: Clayburn-----	55	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Slope Strength	1.00 0.50
Heisspitz-----	30	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Slope Strength	1.00 0.50
395: Scout-----	85	Moderate Slope/erodibility	0.50	Moderate Slope/erodibility	0.50	Poorly suited Slope Strength	1.00 0.50
396: Scout-----	85	Severe Slope/erodibility	0.75	Severe Slope/erodibility	0.95	Poorly suited Slope Strength	1.00 0.50
399: Kite-----	40	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Slope	1.00
Rock outcrop-----	35	Not rated		Not rated		Not rated	
450: Lostlake-----	45	Very severe Slope/erodibility	0.95	Severe Slope/erodibility	0.95	Poorly suited Slope Strength	1.00 0.50
Rock outcrop-----	35	Not rated		Not rated		Not rated	

Table 9.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Hazard of off-road or off-trail erosion		Hazard of erosion on roads and trails		Suitability for roads (natural surface)	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
452: Dystrocryepts-----	55	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Slope	1.00
Rock outcrop-----	35	Not rated		Not rated		Not rated	
453: Sig-----	40	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Slope Rock fragments Strength	1.00 0.50 0.50
Rock outcrop-----	30	Not rated		Not rated		Not rated	
Snowdon-----	20	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Slope Rock fragments	1.00 0.50
454: Snowdon-----	35	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Slope Rock fragments	1.00 0.50
Sig-----	30	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Slope Rock fragments Strength	1.00 0.50 0.50
Rock outcrop-----	25	Not rated		Not rated		Not rated	
493: Badland-----	90	Not rated		Not rated		Not rated	
494: Pits, gravel-----	100	Not rated		Not rated		Not rated	
495: Riverwash-----	85	Not rated		Not rated		Not rated	
496: Rock outcrop-----	70	Not rated		Not rated		Not rated	

Table 9.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Hazard of off-road or off-trail erosion		Hazard of erosion on roads and trails		Suitability for roads (natural surface)	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
497: Rubble land-----	80	Not rated		Not rated		Not rated	
498: Slickens-----	80	Not rated		Not rated		Not rated	
499: Water-----	100	Not rated		Not rated		Not rated	
500: Dolores-----	50	Slight		Moderate Slope/erodibility	0.50	Moderately suited Slope Rock fragments Strength	0.50 0.50 0.50
Fivepine-----	35	Slight		Moderate Slope/erodibility	0.50	Moderately suited Slope Strength	0.50 0.50
501: Fivepine-----	60	Slight		Moderate Slope/erodibility	0.50	Moderately suited Slope Strength	0.50 0.50
Nortez-----	25	Slight		Moderate Slope/erodibility	0.50	Moderately suited Slope Strength	0.50 0.50
503: Ormiston-----	50	Slight		Moderate Slope/erodibility	0.50	Moderately suited Slope Rock fragments Strength	0.50 0.50 0.50
Fivepine-----	35	Slight		Moderate Slope/erodibility	0.50	Moderately suited Slope Strength	0.50 0.50
504: Jemco-----	40	Slight		Moderate Slope/erodibility	0.50	Moderately suited Slope Strength	0.50 0.50

Table 9.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Hazard of off-road or off-trail erosion		Hazard of erosion on roads and trails		Suitability for roads (natural surface)	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
504: Detra-----	30	Slight		Moderate Slope/erodibility	0.50	Moderately suited Slope Strength	0.50 0.50
Beje-----	20	Slight		Moderate Slope/erodibility	0.50	Moderately suited Slope Strength	0.50 0.50
505: Moento-----	80	Slight		Moderate Slope/erodibility	0.50	Moderately suited Slope Strength	0.50 0.50
506: Moento-----	35	Slight		Moderate Slope/erodibility	0.50	Moderately suited Slope Strength	0.50 0.50
Detra-----	30	Slight		Moderate Slope/erodibility	0.50	Moderately suited Slope Strength	0.50 0.50
Jemco-----	20	Slight		Moderate Slope/erodibility	0.50	Moderately suited Slope Strength	0.50 0.50
508: Herm-----	50	Slight		Moderate Slope/erodibility	0.50	Moderately suited Slope Strength	0.50 0.50
Pagoda-----	35	Slight		Moderate Slope/erodibility	0.50	Moderately suited Slope Strength	0.50 0.50
509: Burnson, dry-----	80	Slight		Moderate Slope/erodibility	0.50	Moderately suited Slope Strength	0.50 0.50

Table 9.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Hazard of off-road or off-trail erosion		Hazard of erosion on roads and trails		Suitability for roads (natural surface)	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
510: Jemco-----	60	Slight		Moderate Slope/erodibility	0.50	Moderately suited Slope Strength	0.50 0.50
Moento-----	25	Slight		Moderate Slope/erodibility	0.50	Moderately suited Slope Strength	0.50 0.50
511: Granath-----	50	Slight		Moderate Slope/erodibility	0.50	Moderately suited Slope Strength	0.50 0.50
Fughes-----	35	Slight		Moderate Slope/erodibility	0.50	Moderately suited Slope Strength	0.50 0.50
512: Wetherill-----	85	Slight		Moderate Slope/erodibility	0.50	Moderately suited Strength	0.50
513: Maudrey-----	50	Slight		Moderate Slope/erodibility	0.50	Moderately suited Slope Strength	0.50 0.50
Tombac-----	35	Slight		Moderate Slope/erodibility	0.50	Moderately suited Slope Strength	0.50 0.50
525: Arabrab-----	85	Slight		Moderate Slope/erodibility	0.50	Moderately suited Slope Strength	0.50 0.50
526: Lonecone-----	80	Slight		Slight		Moderately suited Strength	0.50

Table 9.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Hazard of off-road or off-trail erosion		Hazard of erosion on roads and trails		Suitability for roads (natural surface)	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
527: Ormiston-----	50	Moderate Slope/erodibility	0.50	Moderate Slope/erodibility	0.50	Poorly suited Slope Rock fragments Strength	1.00 0.50 0.50
Beje-----	35	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Slope Rock fragments Strength	1.00 0.50 0.50
552: Burnson-----	80	Slight		Moderate Slope/erodibility	0.50	Moderately suited Slope Strength	0.50 0.50
553: Burnson-----	50	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Slope Strength	1.00 0.50
Herm-----	30	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Slope Strength	1.00 0.50
571: Mancos-----	40	Slight		Moderate Slope/erodibility	0.50	Moderately suited Slope Strength	0.50 0.50
Skisams-----	35	Slight		Moderate Slope/erodibility	0.50	Moderately suited Slope Strength	0.50 0.50
Skutum-----	20	Slight		Moderate Slope/erodibility	0.50	Moderately suited Slope Strength	0.50 0.50
572: Sudduth-----	85	Slight		Moderate Slope/erodibility	0.50	Moderately suited Slope Strength	0.50 0.50

Table 9.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Hazard of off-road or off-trail erosion		Hazard of erosion on roads and trails		Suitability for roads (natural surface)	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
600: Valto-----	50	Severe Slope/erodibility	0.75	Severe Slope/erodibility	0.95	Poorly suited Slope	1.00
Rock outcrop-----	35	Not rated		Not rated		Not rated	
601: Weminuche-----	85	Very severe Slope/erodibility	0.95	Severe Slope/erodibility	0.95	Poorly suited Slope	1.00
602: Weminuche-----	85	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Slope	1.00
603: Weminuche-----	55	Severe Slope/erodibility	0.75	Severe Slope/erodibility	0.95	Poorly suited Slope	1.00
Anvik-----	25	Severe Slope/erodibility	0.75	Severe Slope/erodibility	0.95	Poorly suited Slope Strength	1.00 0.50
605: Nordicol-----	80	Moderate Slope/erodibility	0.50	Moderate Slope/erodibility	0.50	Poorly suited Slope	1.00
606: Snowdon-----	50	Very severe Slope/erodibility	0.95	Severe Slope/erodibility	0.95	Poorly suited Slope Rock fragments Strength	1.00 1.00 0.50
Needleton-----	35	Very severe Slope/erodibility	0.95	Severe Slope/erodibility	0.95	Poorly suited Slope Rock fragments	1.00 1.00
607: Graysill-----	45	Severe Slope/erodibility	0.75	Severe Slope/erodibility	0.95	Poorly suited Slope Strength	1.00 0.50

Table 9.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Hazard of off-road or off-trail erosion		Hazard of erosion on roads and trails		Suitability for roads (natural surface)	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
607: Scotch-----	35	Severe Slope/erodibility	0.75	Severe Slope/erodibility	0.95	Poorly suited Slope Strength	1.00 0.50
608: Scotch-----	45	Severe Slope/erodibility	0.75	Severe Slope/erodibility	0.95	Poorly suited Slope Strength	1.00 0.50
Graysill-----	35	Severe Slope/erodibility	0.75	Severe Slope/erodibility	0.95	Poorly suited Slope Strength	1.00 0.50
609: Hourglass-----	50	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Slope Strength	1.00 0.50
Wander-----	35	Moderate Slope/erodibility	0.50	Moderate Slope/erodibility	0.50	Poorly suited Slope Strength	1.00 0.50
610: Wander-----	45	Severe Slope/erodibility	0.75	Severe Slope/erodibility	0.95	Poorly suited Slope Rock fragments Strength	1.00 0.50 0.50
Hotter-----	30	Severe Slope/erodibility	0.75	Severe Slope/erodibility	0.95	Poorly suited Slope Rock fragments	1.00 0.50
Hourglass-----	15	Severe Slope/erodibility	0.75	Severe Slope/erodibility	0.95	Poorly suited Slope Strength	1.00 0.50
611: Goldbug-----	85	Moderate Slope/erodibility	0.50	Moderate Slope/erodibility	0.50	Poorly suited Slope Rock fragments	1.00 0.50

Table 9.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Hazard of off-road or off-trail erosion		Hazard of erosion on roads and trails		Suitability for roads (natural surface)	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
612: Haviland-----	50	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Slope Strength	1.00 0.50
Graysill-----	35	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Slope Strength	1.00 0.50
615: Haviland-----	75	Severe Slope/erodibility	0.75	Severe Slope/erodibility	0.95	Poorly suited Slope Strength	1.00 0.50
616: Forthlewis-----	85	Slight		Slight		Moderately suited Slope	0.50
617: Shawa-----	85	Slight		Severe Slope/erodibility	0.95	Poorly suited Slope Strength	1.00 0.50
618: Nordicol-----	50	Severe Slope/erodibility	0.75	Severe Slope/erodibility	0.95	Poorly suited Slope	1.00
Valto-----	35	Severe Slope/erodibility	0.75	Severe Slope/erodibility	0.95	Poorly suited Slope	1.00
619: Nordicol-----	80	Very severe Slope/erodibility	0.95	Severe Slope/erodibility	0.95	Poorly suited Slope Rock fragments	1.00 1.00
620: Caviness-----	90	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Slope Strength	1.00 0.50

Table 9.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Hazard of off-road or off-trail erosion		Hazard of erosion on roads and trails		Suitability for roads (natural surface)	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
621: Granturk-----	85	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Slope Strength	1.00 0.50
622: Granturk-----	60	Severe Slope/erodibility	0.75	Severe Slope/erodibility	0.95	Poorly suited Slope Strength	1.00 0.50
Rock outcrop-----	30	Not rated		Not rated		Not rated	
623: Chris-----	50	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Slope Strength	1.00 0.50
Nordicol-----	40	Moderate Slope/erodibility	0.50	Moderate Slope/erodibility	0.50	Poorly suited Slope	1.00
699: Haplocryolls-----	40	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Slope Strength	1.00 0.50
Rubble land-----	40	Not rated		Not rated		Not rated	
700: Bradfield-----	90	Slight		Slight		Moderately suited Strength	0.50
703: Narraguinnep-----	80	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Slope Strength	1.00 0.50
704: Gladlow-----	30	Slight		Severe Slope/erodibility	0.95	Moderately suited Slope Strength	0.50 0.50
Rock outcrop-----	30	Not rated		Not rated		Not rated	

Table 9.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Hazard of off-road or off-trail erosion		Hazard of erosion on roads and trails		Suitability for roads (natural surface)	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
704: Ruko-----	20	Slight		Severe Slope/erodibility	0.95	Moderately suited Slope Strength	0.50 0.50
705: Helmet-----	80	Slight		Moderate Slope/erodibility	0.50	Moderately suited Slope Strength	0.50 0.50
706: Narraguinnep-----	85	Slight		Moderate Slope/erodibility	0.50	Moderately suited Slope Strength	0.50 0.50
707: Teedown-----	50	Slight		Moderate Slope/erodibility	0.50	Moderately suited Slope Strength	0.50 0.50
Nordicol-----	35	Slight		Moderate Slope/erodibility	0.50	Moderately suited Slope	0.50
708: Helmet-----	80	Severe Slope/erodibility	0.75	Severe Slope/erodibility	0.95	Poorly suited Slope Strength	1.00 0.50
709: Teedown-----	85	Slight		Moderate Slope/erodibility	0.50	Moderately suited Slope Strength	0.50 0.50
710: Sili-----	50	Slight		Severe Slope/erodibility	0.95	Moderately suited Slope Strength	0.50 0.50
Zigzag-----	30	Slight		Moderate Slope/erodibility	0.50	Moderately suited Slope Strength	0.50 0.50

Table 9.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Hazard of off-road or off-trail erosion		Hazard of erosion on roads and trails		Suitability for roads (natural surface)	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
711: Sili-----	85	Slight		Severe Slope/erodibility	0.95	Moderately suited Slope Strength	0.50 0.50
714: Helmet-----	80	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Slope Strength	1.00 0.50
718: Narraguinnep-----	50	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Slope Strength	1.00 0.50
Gladlow-----	40	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Slope Strength	1.00 0.50
720: Zigzag-----	45	Very severe Slope/erodibility	0.95	Severe Slope/erodibility	0.95	Poorly suited Slope Strength	1.00 0.50
Rock outcrop-----	35	Not rated		Not rated		Not rated	
723: Zigzag-----	50	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Slope Strength	1.00 0.50
Rock outcrop-----	40	Not rated		Not rated		Not rated	
725: Shawa-----	85	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Slope Strength	1.00 0.50
727: Teedown-----	50	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Slope Strength	1.00 0.50

Table 9.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Hazard of off-road or off-trail erosion		Hazard of erosion on roads and trails		Suitability for roads (natural surface)	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
727: Nordicol-----	35	Moderate Slope/erodibility	0.50	Moderate Slope/erodibility	0.50	Poorly suited Slope	1.00
730: Baird Hollow-----	35	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Slope Strength	1.00 0.50
Nordicol-----	30	Moderate Slope/erodibility	0.50	Moderate Slope/erodibility	0.50	Poorly suited Slope	1.00
Ryman-----	25	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Slope Strength	1.00 0.50
731: Ryman-----	60	Slight		Slight		Moderately suited Strength	0.50
Adel-----	30	Slight		Moderate Slope/erodibility	0.50	Moderately suited Slope Strength	0.50 0.50
732: Adel-----	50	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Slope Strength	1.00 0.50
Quazar-----	40	Moderate Slope/erodibility	0.50	Moderate Slope/erodibility	0.50	Poorly suited Slope Strength	1.00 0.50
733: Adel-----	70	Moderate Slope/erodibility	0.50	Moderate Slope/erodibility	0.50	Poorly suited Slope Strength	1.00 0.50
Bucklon-----	20	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Slope Strength	1.00 0.50

Table 9.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Hazard of off-road or off-trail erosion		Hazard of erosion on roads and trails		Suitability for roads (natural surface)	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
734: Ryman-----	60	Slight		Moderate Slope/erodibility	0.50	Moderately suited Slope Strength	0.50 0.50
Clayburn-----	30	Slight		Moderate Slope/erodibility	0.50	Moderately suited Slope Strength	0.50 0.50
740: Cowtown-----	50	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Slope Strength	1.00 0.50
Scout-----	30	Moderate Slope/erodibility	0.50	Moderate Slope/erodibility	0.50	Poorly suited Slope Strength	1.00 0.50
741: Cowtown-----	45	Severe Slope/erodibility	0.75	Severe Slope/erodibility	0.95	Poorly suited Slope Strength	1.00 0.50
Scout-----	35	Severe Slope/erodibility	0.75	Severe Slope/erodibility	0.95	Poorly suited Slope Strength	1.00 0.50
750: Archuleta-----	50	Severe Slope/erodibility	0.75	Severe Slope/erodibility	0.95	Poorly suited Slope Rock fragments Strength	1.00 0.50 0.50
Sheek-----	35	Severe Slope/erodibility	0.75	Severe Slope/erodibility	0.95	Poorly suited Slope Rock fragments	1.00 0.50
801: Fughes-----	50	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Slope Rock fragments Strength	1.00 0.50 0.50

Table 9.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Hazard of off-road or off-trail erosion		Hazard of erosion on roads and trails		Suitability for roads (natural surface)	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
801: Sheek-----	35	Moderate Slope/erodibility	0.50	Moderate Slope/erodibility	0.50	Poorly suited Slope Rock fragments Strength	1.00 1.00 0.50
802: Argiustolls-----	30	Very severe Slope/erodibility	0.95	Severe Slope/erodibility	0.95	Poorly suited Slope Rock fragments	1.00 0.50
Haplustalfs-----	30	Very severe Slope/erodibility	0.95	Severe Slope/erodibility	0.95	Poorly suited Slope Rock fragments	1.00 1.00
Rock outcrop-----	25	Not rated		Not rated		Not rated	
804: Wauquie-----	40	Severe Slope/erodibility	0.75	Severe Slope/erodibility	0.95	Poorly suited Slope Rock fragments	1.00 1.00
Dolcan-----	25	Very severe Slope/erodibility	0.95	Severe Slope/erodibility	0.95	Poorly suited Slope Rock fragments Strength	1.00 1.00 0.50
Rock outcrop-----	20	Not rated		Not rated		Not rated	
805: Shawa-----	50	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Slope Strength	1.00 0.50
Fughes-----	40	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Slope Strength	1.00 0.50
806: Shawa-----	45	Severe Slope/erodibility	0.75	Severe Slope/erodibility	0.95	Poorly suited Slope Rock fragments Strength	1.00 0.50 0.50

Table 9.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Hazard of off-road or off-trail erosion		Hazard of erosion on roads and trails		Suitability for roads (natural surface)	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
806: Fughes-----	35	Severe Slope/erodibility	0.75	Severe Slope/erodibility	0.95	Poorly suited Slope Rock fragments Strength	1.00 0.50 0.50
809: Argiustolls-----	45	Very severe Slope/erodibility	0.95	Severe Slope/erodibility	0.95	Poorly suited Slope	1.00
Haplustalfs-----	40	Very severe Slope/erodibility	0.95	Severe Slope/erodibility	0.95	Poorly suited Slope	1.00
813: Fughes-----	80	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Slope Strength	1.00 0.50
814: Leaps-----	50	Moderate Slope/erodibility	0.50	Moderate Slope/erodibility	0.50	Poorly suited Slope Strength	1.00 0.50
Hofly-----	35	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Slope Strength	1.00 0.50
815: Behanco-----	45	Slight		Slight		Moderately suited Slope	0.50
Powderhorn family---	40	Slight		Moderate Slope/erodibility	0.50	Moderately suited Slope Strength	0.50 0.50
816: Storm-----	85	Moderate Slope/erodibility	0.50	Moderate Slope/erodibility	0.50	Poorly suited Slope	1.00
826: Ute-----	50	Slight		Slight		Poorly suited Wetness Strength	1.00 0.50

Table 9.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Hazard of off-road or off-trail erosion		Hazard of erosion on roads and trails		Suitability for roads (natural surface)	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
826: Frisco-----	40	Slight		Moderate Slope/erodibility	0.50	Poorly suited Slope Strength	1.00 0.50
830: Dressel-----	55	Very severe Slope/erodibility	0.95	Severe Slope/erodibility	0.95	Poorly suited Slope Strength	1.00 0.50
Jersey-----	30	Very severe Slope/erodibility	0.95	Severe Slope/erodibility	0.95	Poorly suited Slope	1.00
832: Storm-----	85	Slight		Slight		Moderately suited Slope	0.50
834: Haycamp-----	60	Very severe Slope/erodibility	0.95	Severe Slope/erodibility	0.95	Poorly suited Slope Strength	1.00 0.50
Jersey-----	25	Very severe Slope/erodibility	0.95	Severe Slope/erodibility	0.95	Poorly suited Slope	1.00
835: Brumley-----	85	Slight		Moderate Slope/erodibility	0.50	Well suited	
860: Granath-----	55	Slight		Moderate Slope/erodibility	0.50	Moderately suited Slope Strength	0.50 0.50
Nortez-----	30	Slight		Moderate Slope/erodibility	0.50	Moderately suited Slope Strength	0.50 0.50
861: Morapos-----	80	Slight		Moderate Slope/erodibility	0.50	Moderately suited Slope Strength	0.50 0.50

Table 9.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Hazard of off-road or off-trail erosion		Hazard of erosion on roads and trails		Suitability for roads (natural surface)	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
862: Granath-----	40	Slight		Moderate Slope/erodibility	0.50	Moderately suited Slope Strength	0.50 0.50
Dolores-----	25	Slight		Moderate Slope/erodibility	0.50	Moderately suited Slope Strength	0.50 0.50
Fivepine-----	20	Slight		Moderate Slope/erodibility	0.50	Moderately suited Slope Strength	0.50 0.50
863: Granath-----	40	Slight		Moderate Slope/erodibility	0.50	Moderately suited Slope Strength	0.50 0.50
Ormiston-----	25	Slight		Moderate Slope/erodibility	0.50	Moderately suited Slope Rock fragments Strength	0.50 0.50 0.50
Fivepine-----	20	Slight		Moderate Slope/erodibility	0.50	Moderately suited Slope Strength	0.50 0.50
890: Tamarron-----	45	Very severe Slope/erodibility	0.95	Severe Slope/erodibility	0.95	Poorly suited Slope Strength	1.00 0.50
Frisco-----	35	Very severe Slope/erodibility	0.95	Severe Slope/erodibility	0.95	Poorly suited Slope Strength	1.00 0.50
891: Tamarron-----	45	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Slope Strength	1.00 0.50

Table 9.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Hazard of off-road or off-trail erosion		Hazard of erosion on roads and trails		Suitability for roads (natural surface)	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
891: Frisco-----	40	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Slope Strength	1.00 0.50
901: Granath-----	45	Slight		Moderate Slope/erodibility	0.50	Moderately suited Strength Slope	0.50 0.50
Zoltay-----	25	Slight		Moderate Slope/erodibility	0.50	Moderately suited Slope Strength	0.50 0.50
Nortez-----	20	Slight		Moderate Slope/erodibility	0.50	Moderately suited Slope Strength	0.50 0.50
903: Anvik-----	85	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Slope Strength	1.00 0.50
904: Beje-----	85	Slight		Severe Slope/erodibility	0.95	Poorly suited Slope	1.00
905: Cryaquolls-----	95	Slight		Slight		Moderately suited Wetness Flooding Strength	0.50 0.50 0.50
906: Archuleta-----	80	Severe Slope/erodibility	0.75	Severe Slope/erodibility	0.95	Poorly suited Slope Strength	1.00 0.50
907: Archuleta-----	45	Severe Slope/erodibility	0.75	Severe Slope/erodibility	0.95	Poorly suited Slope Strength	1.00 0.50

Table 9.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Hazard of off-road or off-trail erosion		Hazard of erosion on roads and trails		Suitability for roads (natural surface)	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
907: Sanchez-----	30	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Slope	1.00
908: Adel-----	85	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Slope Strength	1.00 0.50
909: Adel-----	90	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Slope Strength	1.00 0.50
917: Chris-----	85	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Slope Strength	1.00 0.50
919: Clayburn-----	90	Slight		Moderate Slope/erodibility	0.50	Moderately suited Strength Slope	0.50 0.50
920: Clayburn-----	85	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Slope Strength	1.00 0.50
926: Ustolls-----	45	Very severe Slope/erodibility	0.95	Severe Slope/erodibility	0.95	Poorly suited Slope Strength	1.00 0.50
Rock outcrop-----	40	Not rated		Not rated		Not rated	
930: Furtlewis-----	45	Moderate Slope/erodibility	0.50	Moderate Slope/erodibility	0.50	Poorly suited Slope	1.00
Rock outcrop-----	35	Not rated		Not rated		Not rated	

Table 9.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Hazard of off-road or off-trail erosion		Hazard of erosion on roads and trails		Suitability for roads (natural surface)	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
934: Ceek-----	85	Moderate Slope/erodibility	0.50	Moderate Slope/erodibility	0.50	Poorly suited Slope Strength	1.00 0.50
937: Herm-----	85	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Slope Strength	1.00 0.50
939: Ohwiler-----	90	Slight		Moderate Slope/erodibility	0.50	Moderately suited Strength Slope	0.50 0.50
940: Horsethief-----	85	Severe Slope/erodibility	0.75	Severe Slope/erodibility	0.95	Poorly suited Slope	1.00
942: Fivepine-----	50	Slight		Moderate Slope/erodibility	0.50	Moderately suited Slope Strength	0.50 0.50
Pino-----	35	Slight		Moderate Slope/erodibility	0.50	Moderately suited Slope Strength	0.50 0.50
945: Nizhoni-----	35	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Slope Strength	1.00 0.50
Arabrab-----	30	Slight		Moderate Slope/erodibility	0.50	Moderately suited Slope	0.50
Rock outcrop-----	30	Not rated		Not rated		Not rated	
950: Pescar-----	80	Slight		Slight		Poorly suited Flooding	1.00

Table 9.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Hazard of off-road or off-trail erosion		Hazard of erosion on roads and trails		Suitability for roads (natural surface)	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
951: Endoaquolls-----	90	Slight		Slight		Poorly suited Flooding Strength Wetness	1.00 0.50 0.50
955: Umbarg-----	35	Slight		Slight		Moderately suited Strength	0.50
Winner-----	30	Slight		Slight		Moderately suited Strength	0.50
Tesajo-----	20	Slight		Slight		Well suited	
956: Ormiston-----	50	Slight		Slight		Moderately suited Rock fragments Strength Slope	0.50 0.50 0.50
Granath-----	35	Slight		Moderate Slope/erodibility	0.50	Moderately suited Strength Slope	0.50 0.50
958: Sheek-----	35	Very severe Slope/erodibility	0.95	Severe Slope/erodibility	0.95	Poorly suited Slope	1.00
Archuleta-----	30	Very severe Slope/erodibility	0.95	Severe Slope/erodibility	0.95	Poorly suited Slope	1.00
Rock outcrop-----	20	Not rated		Not rated		Not rated	
959: Granath-----	90	Slight		Moderate Slope/erodibility	0.50	Moderately suited Strength	0.50
965: Narraguinnep-----	55	Slight		Moderate Slope/erodibility	0.50	Moderately suited Slope Strength	0.50 0.50

Table 9.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Hazard of off-road or off-trail erosion		Hazard of erosion on roads and trails		Suitability for roads (natural surface)	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
965: Dapoin-----	30	Slight		Moderate Slope/erodibility	0.50	Moderately suited Slope Strength	0.50 0.50
966: Cryaquepts-----	85	Slight		Slight		Poorly suited Flooding Wetness Strength	1.00 0.50 0.50
967: Quazar-----	40	Moderate Slope/erodibility	0.50	Moderate Slope/erodibility	0.50	Poorly suited Slope Strength	1.00 0.50
Cryaquolls-----	25	Slight		Slight		Moderately suited Wetness Flooding Strength	0.50 0.50 0.50
Cryohemists-----	20	Very severe High organic content	1.00	Very severe High organic content	1.00	Poorly suited Flooding Wetness Strength	1.00 1.00 0.50
968: Nortez-----	50	Slight		Moderate Slope/erodibility	0.50	Moderately suited Strength Slope	0.50 0.50
Granath-----	35	Slight		Moderate Slope/erodibility	0.50	Moderately suited Strength Slope	0.50 0.50
969: Nortez-----	45	Slight		Moderate Slope/erodibility	0.50	Moderately suited Strength Slope	0.50 0.50
Fivepine-----	40	Slight		Moderate Slope/erodibility	0.50	Moderately suited Strength Slope	0.50 0.50

Table 9.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Hazard of off-road or off-trail erosion		Hazard of erosion on roads and trails		Suitability for roads (natural surface)	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
972: Pagoda-----	35	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Slope Strength	1.00 0.50
Coulterg-----	30	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Slope Strength	1.00 0.50
Wiggler-----	20	Severe Slope/erodibility	0.75	Severe Slope/erodibility	0.95	Poorly suited Slope	1.00
989: Ryman-----	90	Slight		Severe Slope/erodibility	0.95	Moderately suited Slope Strength	0.50 0.50
990: Ryman, warm-----	85	Slight		Severe Slope/erodibility	0.95	Moderately suited Slope Strength	0.50 0.50
992: Gladlow-----	85	Slight		Moderate Slope/erodibility	0.50	Moderately suited Slope Strength	0.50 0.50
996: Zoltay-----	85	Slight		Moderate Slope/erodibility	0.50	Moderately suited Slope Strength	0.50 0.50
997: Zigzag-----	40	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Slope Strength	1.00 0.50
Bodot-----	25	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Slope Strength	1.00 0.50
Rock outcrop-----	25	Not rated		Not rated		Not rated	

Table 10.--Forestland management

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the limitation. See text for further explanation of ratings in this table.)

Map symbol and soil name	Pct. of map unit	Suitability for hand planting		Suitability for mechanical planting		Suitability for use of harvesting equipment	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
1: Bradfield-----	45	Moderately suited Stickiness	0.50	Moderately suited Stickiness	0.50	Moderately suited Strength	0.50
Narraguinnep-----	40	Moderately suited Stickiness	0.50	Moderately suited Stickiness	0.50	Moderately suited Strength	0.50
2: Hesperus-----	85	Well suited		Well suited		Moderately suited Strength	0.50
10: Lillings-----	85	Well suited		Well suited		Moderately suited Strength	0.50
12: Shawa-----	80	Well suited		Well suited		Moderately suited Strength	0.50
13: Fughes-----	85	Well suited		Moderately suited Slope	0.50	Moderately suited Strength	0.50
14: Dalmatian-----	35	Well suited		Well suited		Moderately suited Strength	0.50
Apmay-----	35	Well suited		Well suited		Moderately suited Strength	0.50
Schrader-----	15	Well suited		Well suited		Moderately suited Strength Wetness	0.50 0.50
15: Umbarg-----	80	Well suited		Well suited		Moderately suited Strength	0.50

Table 10.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Suitability for hand planting		Suitability for mechanical planting		Suitability for use of harvesting equipment	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
16: Payter-----	85	Well suited		Moderately suited Slope	0.50	Well suited	
17: Fluvaquents-----	55	Moderately suited Sandiness	0.50	Moderately suited Rock fragments Sandiness	0.50 0.50	Moderately suited Strength Wetness	0.50 0.50
Haplustolls-----	30	Well suited		Well suited		Well suited	
18: Endoaquolls-----	45	Well suited		Well suited		Moderately suited Wetness Strength	0.50 0.50
Ustifluvents-----	40	Well suited		Well suited		Moderately suited Strength	0.50
20: Mavreeso-----	75	Well suited		Poorly suited Slope	0.75	Moderately suited Strength	0.50
51: Clayburn-----	55	Well suited		Moderately suited Slope	0.50	Moderately suited Strength	0.50
Hourglass-----	35	Well suited		Moderately suited Slope	0.50	Moderately suited Strength	0.50
52: Ohwiler-----	80	Well suited		Poorly suited Slope	0.75	Moderately suited Strength Slope	0.50 0.50
53: Cryaquolls-----	50	Moderately suited Rock fragments	0.50	Poorly suited Rock fragments	0.75	Moderately suited Wetness Strength	0.50 0.50
Typic Cryaquents----	35	Well suited		Moderately suited Rock fragments	0.50	Poorly suited Wetness Strength	1.00 0.50

Table 10.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Suitability for hand planting		Suitability for mechanical planting		Suitability for use of harvesting equipment	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
54: Quazar-----	90	Moderately suited Rock fragments	0.50	Poorly suited Rock fragments Slope	0.75 0.50	Moderately suited Rock fragments Strength	0.50 0.50
56: Typic Cryaquents----	35	Well suited		Moderately suited Rock fragments	0.50	Poorly suited Wetness Strength	1.00 0.50
Cryaquolls-----	30	Moderately suited Rock fragments	0.50	Poorly suited Rock fragments	0.75	Moderately suited Wetness Strength	0.50 0.50
Cryofibrists-----	25	Moderately suited Wetness	0.50	Moderately suited Wetness	0.50	Poorly suited Wetness	1.00
57: Howardsville-----	80	Moderately suited Rock fragments Sandiness	0.50 0.50	Unsuited Rock fragments Sandiness	1.00 0.50	Moderately suited Sandiness	0.50
58: Fughes-----	55	Well suited		Moderately suited Slope	0.50	Moderately suited Strength	0.50
Herm-----	35	Well suited		Moderately suited Slope	0.50	Moderately suited Strength	0.50
59: Fughes-----	45	Moderately suited Slope	0.50	Unsuited Slope Rock fragments	1.00 0.50	Moderately suited Slope Strength	0.50 0.50
Herm-----	35	Moderately suited Slope Rock fragments	0.50 0.50	Unsuited Slope Rock fragments	1.00 0.50	Moderately suited Slope Strength	0.50 0.50
60: Grimes-----	90	Moderately suited Rock fragments	0.50	Unsuited Rock fragments	1.00	Well suited	

Table 10.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Suitability for hand planting		Suitability for mechanical planting		Suitability for use of harvesting equipment	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
110: Sheek-----	45	Moderately suited Rock fragments	0.50	Poorly suited Slope Rock fragments	0.75 0.75	Moderately suited Strength	0.50
Ormiston-----	35	Moderately suited Rock fragments	0.50	Unsuited Rock fragments Slope	1.00 0.50	Moderately suited Strength	0.50
111: Fardraw-----	80	Well suited		Moderately suited Rock fragments Slope	0.50 0.50	Moderately suited Strength	0.50
113: Dolores-----	80	Moderately suited Rock fragments Slope	0.50 0.50	Unsuited Slope Rock fragments	1.00 0.75	Poorly suited Slope Strength	1.00 0.50
150: Silex-----	70	Well suited		Moderately suited Slope	0.50	Moderately suited Strength	0.50
Rock outcrop-----	20	Not rated		Not rated		Not rated	
151: Frisco-----	80	Well suited		Poorly suited Slope Rock fragments	0.75 0.50	Moderately suited Strength	0.50
152: Frisco-----	80	Moderately suited Slope	0.50	Unsuited Slope Rock fragments	1.00 0.50	Moderately suited Slope Strength	0.50 0.50
153: Frisco-----	50	Well suited		Poorly suited Slope Rock fragments	0.75 0.50	Moderately suited Strength Slope	0.50 0.50
Horsethief-----	30	Well suited		Poorly suited Slope	0.75	Moderately suited Strength Slope	0.50 0.50

Table 10.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Suitability for hand planting		Suitability for mechanical planting		Suitability for use of harvesting equipment	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
154: Frisco-----	60	Moderately suited Slope	0.50	Unsuited Slope Rock fragments	1.00 0.50	Poorly suited Slope Strength	1.00 0.50
Horsethief-----	25	Moderately suited Slope	0.50	Unsuited Slope Rock fragments	1.00 0.50	Poorly suited Slope Strength	1.00 0.50
155: Tuckerville-----	70	Moderately suited Rock fragments Slope	0.50 0.50	Unsuited Slope Rock fragments	1.00 0.75	Poorly suited Slope	1.00
Rock outcrop-----	20	Not rated		Not rated		Not rated	
156: Sponsor-----	60	Well suited		Poorly suited Slope Rock fragments	0.75 0.50	Moderately suited Strength Slope	0.50 0.50
Tuckerville-----	30	Well suited		Poorly suited Slope Rock fragments	0.75 0.50	Moderately suited Strength Slope	0.50 0.50
157: Sponsor-----	60	Well suited		Poorly suited Slope Rock fragments	0.75 0.50	Moderately suited Rock fragments Strength Slope	0.50 0.50 0.50
Tuckerville-----	30	Well suited		Poorly suited Slope Rock fragments	0.75 0.50	Moderately suited Rock fragments Strength Slope	0.50 0.50 0.50
158: Sponsor-----	60	Moderately suited Slope	0.50	Unsuited Slope Rock fragments	1.00 0.50	Poorly suited Slope Strength	1.00 0.50

Table 10.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Suitability for hand planting		Suitability for mechanical planting		Suitability for use of harvesting equipment	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
158: Tuckerville-----	30	Moderately suited Slope	0.50	Unsuited Slope Rock fragments	1.00 0.50	Poorly suited Slope Strength	1.00 0.50
159: Tuckerville-----	80	Moderately suited Rock fragments Slope	0.50 0.50	Unsuited Slope Rock fragments	1.00 0.75	Moderately suited Slope	0.50
160: Anvik-----	40	Well suited		Unsuited Slope	1.00	Moderately suited Slope Strength	0.50 0.50
Tuckerville-----	35	Well suited		Unsuited Slope Rock fragments	1.00 0.50	Moderately suited Slope Strength	0.50 0.50
161: Needleton-----	85	Moderately suited Rock fragments	0.50	Moderately suited Rock fragments Slope	0.50 0.50	Well suited	
162: Quazar-----	45	Moderately suited Rock fragments Slope	0.50 0.50	Unsuited Slope Rock fragments	1.00 0.75	Poorly suited Slope Rock fragments Strength	1.00 0.50 0.50
Varden-----	40	Moderately suited Rock fragments Slope	0.50 0.50	Unsuited Slope Rock fragments	1.00 1.00	Poorly suited Slope Rock fragments	1.00 0.50
163: Clayburn-----	50	Well suited		Poorly suited Slope	0.75	Moderately suited Strength	0.50
Hourglass-----	35	Well suited		Poorly suited Slope	0.75	Moderately suited Strength	0.50

Table 10.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Suitability for hand planting		Suitability for mechanical planting		Suitability for use of harvesting equipment	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
164: Hourglass-----	50	Moderately suited Slope	0.50	Unsuited Slope	1.00	Poorly suited Slope Strength	1.00 0.50
Bucklon-----	25	Moderately suited Slope Restrictive layer	0.50 0.50	Unsuited Slope	1.00	Poorly suited Slope Strength	1.00 0.50
Wander-----	15	Moderately suited Rock fragments Slope	0.50 0.50	Unsuited Slope Rock fragments	1.00 0.75	Poorly suited Slope Strength	1.00 0.50
165: Pinacol-----	85	Well suited		Moderately suited Rock fragments Slope	0.50 0.50	Moderately suited Strength	0.50
166: Pinacol-----	80	Well suited		Unsuited Slope Rock fragments	1.00 0.50	Moderately suited Slope Strength	0.50 0.50
250: Snowdon-----	55	Moderately suited Rock fragments Slope	0.50 0.50	Unsuited Slope Rock fragments	1.00 1.00	Poorly suited Slope Rock fragments Strength	1.00 0.50 0.50
Rock outcrop-----	25	Not rated		Not rated		Not rated	
251: Rock outcrop-----	60	Not rated		Not rated		Not rated	
Snowdon-----	25	Moderately suited Rock fragments Slope	0.50 0.50	Unsuited Slope Rock fragments	1.00 1.00	Poorly suited Slope Rock fragments Strength	1.00 0.50 0.50
254: Typic Cryorthents---	50	Moderately suited Rock fragments Slope	0.50 0.50	Unsuited Slope Rock fragments	1.00 0.75	Poorly suited Slope	1.00

Table 10.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Suitability for hand planting		Suitability for mechanical planting		Suitability for use of harvesting equipment	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
254: Rubble land-----	30	Not rated		Not rated		Not rated	
330: Needleton-----	85	Moderately suited Rock fragments	0.50	Poorly suited Slope Rock fragments	0.75 0.50	Well suited	
331: Needleton-----	80	Moderately suited Slope Rock fragments	0.50 0.50	Unsuited Slope Rock fragments	1.00 0.50	Poorly suited Slope	1.00
332: Horsethief-----	55	Moderately suited Rock fragments Slope	0.50 0.50	Unsuited Slope Rock fragments	1.00 1.00	Poorly suited Slope Rock fragments	1.00 0.50
Needleton-----	35	Moderately suited Slope Rock fragments	0.50 0.50	Unsuited Slope Rock fragments	1.00 0.50	Poorly suited Slope Rock fragments	1.00 0.50
333: Henson, south aspect	85	Moderately suited Rock fragments	0.50	Unsuited Rock fragments Slope	1.00 0.75	Well suited	
334: Henson, south aspect	80	Moderately suited Rock fragments Slope	0.50 0.50	Unsuited Slope Rock fragments	1.00 1.00	Poorly suited Slope	1.00
335: Whitcross-----	55	Moderately suited Rock fragments	0.50	Unsuited Slope Rock fragments	1.00 1.00	Moderately suited Slope	0.50
Rock outcrop-----	30	Not rated		Not rated		Not rated	

Table 10.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Suitability for hand planting		Suitability for mechanical planting		Suitability for use of harvesting equipment	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
336: Whitcross, south aspect-----	50	Moderately suited Rock fragments Slope	0.50 0.50	Unsuited Slope Rock fragments	1.00 1.00	Poorly suited Rock fragments Slope	1.00 1.00
Rock outcrop-----	25	Not rated		Not rated		Not rated	
337: Whitcross-----	60	Moderately suited Rock fragments Slope	0.50 0.50	Unsuited Slope Rock fragments	1.00 1.00	Poorly suited Slope Rock fragments	1.00 1.00
Rock outcrop-----	25	Not rated		Not rated		Not rated	
338: Henson-----	80	Moderately suited Rock fragments	0.50	Unsuited Rock fragments Slope	1.00 0.75	Well suited	
339: Henson-----	80	Moderately suited Rock fragments Slope	0.50 0.50	Unsuited Slope Rock fragments	1.00 1.00	Poorly suited Slope	1.00
340: Moran-----	80	Moderately suited Rock fragments	0.50	Poorly suited Slope Rock fragments	0.75 0.75	Well suited	
341: Moran-----	80	Moderately suited Slope Rock fragments	0.50 0.50	Unsuited Slope Rock fragments	1.00 0.75	Poorly suited Slope	1.00
342: Telluride-----	60	Moderately suited Rock fragments	0.50	Unsuited Slope Rock fragments	1.00 0.75	Moderately suited Slope	0.50
Rock outcrop-----	20	Not rated		Not rated		Not rated	

Table 10.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Suitability for hand planting		Suitability for mechanical planting		Suitability for use of harvesting equipment	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
343: Telluride-----	60	Moderately suited Slope Rock fragments	0.50 0.50	Unsuited Slope Rock fragments	1.00 0.75	Poorly suited Slope Strength	1.00 0.50
Rock outcrop-----	25	Not rated		Not rated		Not rated	
345: Papaspila-----	85	Well suited		Moderately suited Slope	0.50	Moderately suited Strength	0.50
350: Flygare-----	45	Moderately suited Rock fragments	0.50	Unsuited Rock fragments Slope	1.00 0.50	Well suited	
Foidel-----	40	Well suited		Moderately suited Slope	0.50	Moderately suited Strength	0.50
355: Flygare-----	45	Moderately suited Rock fragments	0.50	Unsuited Rock fragments Slope	1.00 0.75	Moderately suited Slope	0.50
Foidel-----	40	Well suited		Poorly suited Slope	0.75	Moderately suited Strength Slope	0.50 0.50
360: Blacksnag-----	45	Moderately suited Rock fragments	0.50	Unsuited Rock fragments Slope	1.00 0.50	Well suited	
Peeler-----	40	Well suited		Moderately suited Slope	0.50	Moderately suited Strength	0.50
361: Blacksnag-----	45	Moderately suited Rock fragments	0.50	Unsuited Rock fragments Slope	1.00 0.75	Moderately suited Slope	0.50

Table 10.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Suitability for hand planting		Suitability for mechanical planting		Suitability for use of harvesting equipment	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
361: Peeler-----	40	Well suited		Poorly suited Slope	0.75	Moderately suited Strength Slope	0.50 0.50
374: Mavreeso-----	35	Moderately suited Slope	0.50	Unsuited Slope	1.00	Poorly suited Slope Strength	1.00 0.50
Valto-----	30	Moderately suited Rock fragments Slope	0.50 0.50	Unsuited Slope Rock fragments	1.00 1.00	Poorly suited Slope	1.00
Rock outcrop-----	20	Not rated		Not rated		Not rated	
375: Needleton-----	55	Moderately suited Rock fragments	0.50	Moderately suited Rock fragments Slope	0.50 0.50	Well suited	
Snowdon-----	30	Moderately suited Rock fragments	0.50	Poorly suited Rock fragments Slope	0.75 0.50	Moderately suited Strength	0.50
376: Needleton-----	80	Well suited		Poorly suited Slope	0.75	Moderately suited Strength Slope	0.50 0.50
378: Needleton-----	65	Moderately suited Slope	0.50	Unsuited Slope	1.00	Poorly suited Slope Strength	1.00 0.50
Haviland-----	25	Moderately suited Slope	0.50	Unsuited Slope Rock fragments	1.00 0.50	Poorly suited Slope Strength	1.00 0.50
380: Snowdon-----	50	Moderately suited Rock fragments	0.50	Unsuited Rock fragments Slope	1.00 0.75	Moderately suited Strength Slope	0.50 0.50

Table 10.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Suitability for hand planting		Suitability for mechanical planting		Suitability for use of harvesting equipment	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
380: Rock outcrop-----	35	Not rated		Not rated		Not rated	
381: Needleton-----	45	Moderately suited Slope Rock fragments	0.50 0.50	Unsuited Slope Rock fragments	1.00 0.50	Poorly suited Slope	1.00
Snowdon-----	30	Moderately suited Rock fragments Slope	0.50 0.50	Unsuited Slope Rock fragments	1.00 1.00	Poorly suited Slope Strength	1.00 0.50
Rock outcrop-----	15	Not rated		Not rated		Not rated	
382: Needleton-----	50	Moderately suited Rock fragments	0.50	Poorly suited Slope Rock fragments	0.75 0.50	Moderately suited Slope	0.50
Snowdon-----	30	Moderately suited Rock fragments	0.50	Unsuited Rock fragments Slope	1.00 0.75	Moderately suited Strength Slope	0.50 0.50
383: Haviland-----	50	Well suited		Poorly suited Slope Rock fragments	0.75 0.50	Moderately suited Strength Slope	0.50 0.50
Needleton-----	35	Moderately suited Rock fragments	0.50	Poorly suited Slope Rock fragments	0.75 0.50	Moderately suited Slope	0.50
386: Needleton-----	70	Moderately suited Slope Rock fragments	0.50 0.50	Unsuited Slope Rock fragments	1.00 0.50	Poorly suited Slope Rock fragments	1.00 0.50
387: Frisco-----	50	Moderately suited Slope Rock fragments	0.50 0.50	Unsuited Slope Rock fragments	1.00 0.50	Poorly suited Slope Strength	1.00 0.50

Table 10.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Suitability for hand planting		Suitability for mechanical planting		Suitability for use of harvesting equipment	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
387: Quazar-----	40	Moderately suited Rock fragments Slope	0.50 0.50	Unsuited Slope Rock fragments	1.00 0.75	Poorly suited Slope Strength	1.00 0.50
388: Frisco-----	50	Well suited		Poorly suited Slope Rock fragments	0.75 0.50	Moderately suited Strength Slope	0.50 0.50
Quazar-----	45	Moderately suited Rock fragments	0.50	Poorly suited Slope Rock fragments	0.75 0.75	Moderately suited Strength Slope	0.50 0.50
389: Seitz-----	85	Moderately suited Rock fragments	0.50	Poorly suited Slope Rock fragments	0.75 0.75	Moderately suited Slope	0.50
390: Clayburn-----	40	Moderately suited Slope	0.50	Unsuited Slope	1.00	Poorly suited Slope Strength	1.00 0.50
Heisspitz-----	30	Moderately suited Slope	0.50	Unsuited Slope	1.00	Poorly suited Slope Strength	1.00 0.50
391: Runlett-----	50	Well suited		Poorly suited Slope	0.75	Moderately suited Strength	0.50
Sessions-----	30	Well suited		Poorly suited Slope	0.75	Moderately suited Strength	0.50
392: Runlett-----	30	Well suited		Unsuited Slope	1.00	Moderately suited Slope Strength	0.50 0.50
Needleton-----	30	Well suited		Unsuited Slope	1.00	Moderately suited Slope Strength	0.50 0.50

Table 10.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Suitability for hand planting		Suitability for mechanical planting		Suitability for use of harvesting equipment	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
392: Sessions-----	20	Well suited		Unsuited Slope	1.00	Moderately suited Slope Strength	0.50 0.50
393: Heisspitz-----	50	Well suited		Moderately suited Slope	0.50	Moderately suited Strength	0.50
Sessions-----	25	Well suited		Moderately suited Slope	0.50	Moderately suited Strength	0.50
Rock outcrop-----	20	Not rated		Not rated		Not rated	
394: Clayburn-----	55	Well suited		Poorly suited Slope	0.75	Moderately suited Strength Slope	0.50 0.50
Heisspitz-----	30	Well suited		Poorly suited Slope	0.75	Moderately suited Strength Slope	0.50 0.50
395: Scout-----	85	Moderately suited Rock fragments	0.50	Unsuited Rock fragments Slope	1.00 0.75	Moderately suited Strength	0.50
396: Scout-----	85	Moderately suited Rock fragments Slope	0.50 0.50	Unsuited Slope Rock fragments	1.00 1.00	Poorly suited Slope Strength	1.00 0.50
399: Kite-----	40	Well suited		Poorly suited Slope Rock fragments	0.75 0.50	Moderately suited Slope	0.50
Rock outcrop-----	35	Not rated		Not rated		Not rated	

Table 10.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Suitability for hand planting		Suitability for mechanical planting		Suitability for use of harvesting equipment	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
450: Lostlake-----	45	Moderately suited Slope	0.50	Unsuited Slope Rock fragments	1.00 0.50	Poorly suited Slope Strength	1.00 0.50
Rock outcrop-----	35	Not rated		Not rated		Not rated	
452: Dystrocryepts-----	55	Well suited		Poorly suited Slope Rock fragments	0.75 0.50	Moderately suited Slope	0.50
Rock outcrop-----	35	Not rated		Not rated		Not rated	
453: Sig-----	40	Well suited		Unsuited Slope Rock fragments	1.00 0.50	Moderately suited Slope Rock fragments Strength	0.50 0.50 0.50
Rock outcrop-----	30	Not rated		Not rated		Not rated	
Snowdon-----	20	Moderately suited Rock fragments	0.50	Unsuited Slope Rock fragments	1.00 0.75	Moderately suited Slope Rock fragments	0.50 0.50
454: Snowdon-----	35	Moderately suited Rock fragments	0.50	Unsuited Slope Rock fragments	1.00 1.00	Moderately suited Slope Rock fragments	0.50 0.50
Sig-----	30	Well suited		Unsuited Slope Rock fragments	1.00 0.50	Moderately suited Slope Rock fragments Strength	0.50 0.50 0.50
Rock outcrop-----	25	Not rated		Not rated		Not rated	
493: Badland-----	90	Not rated		Not rated		Not rated	
494: Pits, gravel-----	100	Not rated		Not rated		Not rated	

Table 10.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Suitability for hand planting		Suitability for mechanical planting		Suitability for use of harvesting equipment	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
495: Riverwash-----	85	Not rated		Not rated		Not rated	
496: Rock outcrop-----	70	Not rated		Not rated		Not rated	
497: Rubble land-----	80	Not rated		Not rated		Not rated	
498: Slickens-----	80	Not rated		Not rated		Not rated	
499: Water-----	100	Not rated		Not rated		Not rated	
500: Dolores-----	50	Poorly suited Rock fragments	0.75	Unsuited Rock fragments Slope	1.00 0.50	Moderately suited Rock fragments Strength	0.50 0.50
Fivepine-----	35	Moderately suited Stickiness	0.50	Moderately suited Rock fragments Stickiness Slope	0.50 0.50 0.50	Moderately suited Strength	0.50
501: Fivepine-----	60	Moderately suited Stickiness	0.50	Moderately suited Rock fragments Stickiness Slope	0.50 0.50 0.50	Moderately suited Strength	0.50
Nortez-----	25	Poorly suited Stickiness	0.75	Poorly suited Stickiness Slope	0.75 0.50	Moderately suited Strength	0.50
503: Ormiston-----	50	Moderately suited Rock fragments	0.50	Unsuited Rock fragments Slope	1.00 0.50	Moderately suited Rock fragments Strength	0.50 0.50

Table 10.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Suitability for hand planting		Suitability for mechanical planting		Suitability for use of harvesting equipment	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
503: Fivepine-----	35	Moderately suited Stickiness	0.50	Moderately suited Rock fragments Stickiness Slope	0.50 0.50 0.50	Moderately suited Strength	0.50
504: Jemco-----	40	Well suited		Moderately suited Slope	0.50	Moderately suited Strength	0.50
Detra-----	30	Well suited		Moderately suited Slope	0.50	Moderately suited Strength	0.50
Beje-----	20	Well suited		Moderately suited Slope	0.50	Moderately suited Strength	0.50
505: Moento-----	80	Well suited		Moderately suited Slope	0.50	Moderately suited Strength	0.50
506: Moento-----	35	Well suited		Moderately suited Slope	0.50	Moderately suited Strength	0.50
Detra-----	30	Well suited		Moderately suited Slope	0.50	Moderately suited Strength	0.50
Jemco-----	20	Well suited		Moderately suited Slope	0.50	Moderately suited Strength	0.50
508: Herm-----	50	Well suited		Moderately suited Slope	0.50	Moderately suited Strength	0.50
Pagoda-----	35	Well suited		Moderately suited Slope	0.50	Moderately suited Strength	0.50
509: Burnson, dry-----	80	Moderately suited Stickiness	0.50	Moderately suited Stickiness Slope	0.50 0.50	Moderately suited Strength	0.50

Table 10.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Suitability for hand planting		Suitability for mechanical planting		Suitability for use of harvesting equipment	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
510: Jemco-----	60	Well suited		Moderately suited Slope	0.50	Moderately suited Strength	0.50
Moento-----	25	Well suited		Moderately suited Slope	0.50	Moderately suited Strength	0.50
511: Granath-----	50	Well suited		Moderately suited Slope	0.50	Moderately suited Strength	0.50
Fughes-----	35	Well suited		Moderately suited Slope	0.50	Moderately suited Strength	0.50
512: Wetherill-----	85	Well suited		Well suited		Moderately suited Strength	0.50
513: Maudrey-----	50	Well suited		Moderately suited Slope	0.50	Moderately suited Strength	0.50
Tombac-----	35	Well suited		Moderately suited Slope	0.50	Moderately suited Strength	0.50
525: Arabrab-----	85	Well suited		Moderately suited Rock fragments Slope	0.50 0.50	Moderately suited Strength	0.50
526: Lonecone-----	80	Well suited		Well suited		Moderately suited Strength	0.50
527: Ormiston-----	50	Moderately suited Stickiness Rock fragments	0.50 0.50	Poorly suited Rock fragments Slope Stickiness	0.75 0.50 0.50	Moderately suited Rock fragments Strength	0.50 0.50
Beje-----	35	Well suited		Poorly suited Slope Rock fragments	0.75 0.50	Moderately suited Rock fragments Strength	0.50 0.50

Table 10.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Suitability for hand planting		Suitability for mechanical planting		Suitability for use of harvesting equipment	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
552: Burnson-----	80	Moderately suited Stickiness	0.50	Moderately suited Stickiness Slope	0.50 0.50	Moderately suited Strength	0.50
553: Burnson-----	50	Moderately suited Stickiness	0.50	Poorly suited Slope Stickiness	0.75 0.50	Moderately suited Strength Slope	0.50 0.50
Herm-----	30	Moderately suited Stickiness	0.50	Poorly suited Slope Stickiness	0.75 0.50	Moderately suited Strength Slope	0.50 0.50
571: Mancos-----	40	Well suited		Moderately suited Slope	0.50	Moderately suited Strength	0.50
Skisams-----	35	Well suited		Moderately suited Slope	0.50	Moderately suited Strength	0.50
Skutum-----	20	Well suited		Moderately suited Slope	0.50	Moderately suited Strength	0.50
572: Sudduth-----	85	Well suited		Moderately suited Slope	0.50	Moderately suited Strength	0.50
600: Valto-----	50	Moderately suited Rock fragments Slope	0.50 0.50	Unsuited Slope Rock fragments	1.00 1.00	Poorly suited Slope	1.00
Rock outcrop-----	35	Not rated		Not rated		Not rated	
601: Weminuche-----	85	Moderately suited Slope	0.50	Unsuited Slope	1.00	Poorly suited Slope	1.00
602: Weminuche-----	85	Well suited		Poorly suited Slope	0.75	Well suited	

Table 10.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Suitability for hand planting		Suitability for mechanical planting		Suitability for use of harvesting equipment	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
603: Weminuche-----	55	Moderately suited Slope	0.50	Unsuited Slope	1.00	Poorly suited Slope	1.00
Anvik-----	25	Moderately suited Slope	0.50	Unsuited Slope	1.00	Poorly suited Slope Strength	1.00 0.50
605: Nordicol-----	80	Moderately suited Rock fragments	0.50	Unsuited Rock fragments Slope	1.00 0.75	Well suited	
606: Snowdon-----	50	Moderately suited Slope Rock fragments	0.50 0.50	Unsuited Slope Rock fragments	1.00 0.75	Poorly suited Slope Rock fragments Strength	1.00 1.00 0.50
Needleton-----	35	Moderately suited Slope Rock fragments	0.50 0.50	Unsuited Slope Rock fragments	1.00 0.75	Poorly suited Slope Rock fragments	1.00 1.00
607: Graysill-----	45	Moderately suited Slope	0.50	Unsuited Slope	1.00	Poorly suited Slope Strength	1.00 0.50
Scotch-----	35	Moderately suited Slope	0.50	Unsuited Slope	1.00	Poorly suited Slope Strength	1.00 0.50
608: Scotch-----	45	Moderately suited Slope	0.50	Unsuited Slope	1.00	Poorly suited Slope Strength	1.00 0.50
Graysill-----	35	Moderately suited Slope	0.50	Unsuited Slope	1.00	Poorly suited Slope Strength	1.00 0.50

Table 10.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Suitability for hand planting		Suitability for mechanical planting		Suitability for use of harvesting equipment	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
609: Hourglass-----	50	Well suited		Poorly suited Slope	0.75	Moderately suited Strength	0.50
Wander-----	35	Moderately suited Rock fragments	0.50	Poorly suited Slope Rock fragments	0.75 0.75	Moderately suited Strength	0.50
610: Wander-----	45	Moderately suited Rock fragments Slope	0.50 0.50	Unsuited Slope Rock fragments	1.00 0.75	Poorly suited Slope Rock fragments Strength	1.00 0.50 0.50
Hotter-----	30	Moderately suited Rock fragments Slope	0.50 0.50	Unsuited Slope Rock fragments	1.00 1.00	Poorly suited Slope Rock fragments	1.00 0.50
Hourglass-----	15	Moderately suited Slope	0.50	Unsuited Slope	1.00	Poorly suited Slope Strength	1.00 0.50
611: Goldbug-----	85	Moderately suited Rock fragments	0.50	Poorly suited Slope Rock fragments	0.75 0.75	Moderately suited Rock fragments	0.50
612: Haviland-----	50	Well suited		Poorly suited Slope Rock fragments	0.75 0.50	Moderately suited Strength	0.50
Graysill-----	35	Well suited		Poorly suited Slope	0.75	Moderately suited Strength	0.50
615: Haviland-----	75	Moderately suited Slope	0.50	Unsuited Slope Rock fragments	1.00 0.50	Poorly suited Slope Strength	1.00 0.50

Table 10.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Suitability for hand planting		Suitability for mechanical planting		Suitability for use of harvesting equipment	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
616: Furtlewis-----	85	Moderately suited Rock fragments	0.50	Poorly suited Rock fragments Slope	0.75 0.50	Well suited	
617: Shawa-----	85	Well suited		Moderately suited Slope	0.50	Moderately suited Strength	0.50
618: Nordicol-----	50	Moderately suited Rock fragments Slope	0.50 0.50	Unsuited Slope Rock fragments	1.00 1.00	Poorly suited Slope	1.00
Valto-----	35	Moderately suited Rock fragments Slope	0.50 0.50	Unsuited Slope Rock fragments	1.00 1.00	Poorly suited Slope	1.00
619: Nordicol-----	80	Moderately suited Rock fragments Slope	0.50 0.50	Unsuited Slope Rock fragments	1.00 1.00	Poorly suited Slope Rock fragments	1.00 1.00
620: Caviness-----	90	Moderately suited Rock fragments	0.50	Poorly suited Slope Rock fragments	0.75 0.75	Moderately suited Strength Slope	0.50 0.50
621: Granturk-----	85	Well suited		Moderately suited Slope	0.50	Moderately suited Strength	0.50
622: Granturk-----	60	Moderately suited Slope	0.50	Unsuited Slope	1.00	Poorly suited Slope Strength	1.00 0.50
Rock outcrop-----	30	Not rated		Not rated		Not rated	
623: Chris-----	50	Moderately suited Slope	0.50	Unsuited Slope Rock fragments	1.00 0.50	Moderately suited Slope Strength	0.50 0.50

Table 10.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Suitability for hand planting		Suitability for mechanical planting		Suitability for use of harvesting equipment	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
623: Nordicol-----	40	Moderately suited Rock fragments	0.50	Poorly suited Slope Rock fragments	0.75 0.75	Moderately suited Slope	0.50
699: Haplocryolls-----	40	Moderately suited Rock fragments Slope	0.50 0.50	Unsuited Slope Rock fragments	1.00 1.00	Moderately suited Slope Strength	0.50 0.50
Rubble land-----	40	Not rated		Not rated		Not rated	
700: Bradfield-----	90	Moderately suited Stickiness	0.50	Moderately suited Stickiness	0.50	Moderately suited Strength	0.50
703: Narraguinnep-----	80	Moderately suited Stickiness	0.50	Unsuited Slope Stickiness	1.00 0.50	Moderately suited Slope Strength	0.50 0.50
704: Gladlow-----	30	Well suited		Moderately suited Slope	0.50	Moderately suited Strength	0.50
Rock outcrop-----	30	Not rated		Not rated		Not rated	
Ruko-----	20	Moderately suited Restrictive layer	0.50	Moderately suited Slope	0.50	Moderately suited Strength	0.50
705: Helmet-----	80	Moderately suited Stickiness	0.50	Moderately suited Stickiness Slope	0.50 0.50	Moderately suited Strength	0.50
706: Narraguinnep-----	85	Moderately suited Stickiness	0.50	Moderately suited Slope Stickiness	0.50 0.50	Moderately suited Strength	0.50

Table 10.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Suitability for hand planting		Suitability for mechanical planting		Suitability for use of harvesting equipment	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
707: Teedown-----	50	Well suited		Moderately suited Slope Rock fragments	0.50 0.50	Moderately suited Strength	0.50
Nordicol-----	35	Moderately suited Rock fragments	0.50	Unsuited Rock fragments Slope	1.00 0.50	Well suited	
708: Helmet-----	80	Moderately suited Stickiness Slope	0.50 0.50	Unsuited Slope Stickiness	1.00 0.50	Poorly suited Slope Strength	1.00 0.50
709: Teedown-----	85	Well suited		Moderately suited Slope Rock fragments	0.50 0.50	Moderately suited Strength	0.50
710: Sili-----	50	Well suited		Moderately suited Slope	0.50	Moderately suited Strength	0.50
Zigzag-----	30	Moderately suited Restrictive layer	0.50	Moderately suited Slope Rock fragments	0.50 0.50	Moderately suited Strength	0.50
711: Sili-----	85	Well suited		Moderately suited Slope	0.50	Moderately suited Strength	0.50
714: Helmet-----	80	Moderately suited Stickiness	0.50	Poorly suited Slope Stickiness	0.75 0.50	Moderately suited Strength Slope	0.50 0.50
718: Narraguinnep-----	50	Moderately suited Stickiness	0.50	Poorly suited Slope Stickiness	0.75 0.50	Moderately suited Strength	0.50
Gladlow-----	40	Well suited		Poorly suited Slope	0.75	Moderately suited Strength	0.50

Table 10.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Suitability for hand planting		Suitability for mechanical planting		Suitability for use of harvesting equipment	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
720: Zigzag-----	45	Moderately suited Slope Restrictive layer	0.50 0.50	Unsuited Slope Rock fragments	1.00 0.50	Poorly suited Slope Strength	1.00 0.50
Rock outcrop-----	35	Not rated		Not rated		Not rated	
723: Zigzag-----	50	Moderately suited Restrictive layer	0.50	Poorly suited Slope Rock fragments	0.75 0.50	Moderately suited Strength Slope	0.50 0.50
Rock outcrop-----	40	Not rated		Not rated		Not rated	
725: Shawa-----	85	Well suited		Poorly suited Slope	0.75	Moderately suited Strength Slope	0.50 0.50
727: Teedown-----	50	Well suited		Poorly suited Slope Rock fragments	0.75 0.50	Moderately suited Strength Slope	0.50 0.50
Nordicol-----	35	Moderately suited Rock fragments	0.50	Unsuited Rock fragments Slope	1.00 0.75	Well suited	
730: Baird Hollow-----	35	Well suited		Poorly suited Slope	0.75	Moderately suited Strength Slope	0.50 0.50
Nordicol-----	30	Moderately suited Rock fragments	0.50	Unsuited Rock fragments Slope	1.00 0.75	Moderately suited Slope	0.50
Ryman-----	25	Well suited		Poorly suited Slope	0.75	Moderately suited Slope Strength	0.50 0.50

Table 10.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Suitability for hand planting		Suitability for mechanical planting		Suitability for use of harvesting equipment	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
731: Ryman-----	60	Well suited		Well suited		Moderately suited Strength	0.50
Adel-----	30	Well suited		Moderately suited Slope	0.50	Moderately suited Strength	0.50
732: Adel-----	50	Well suited		Poorly suited Slope	0.75	Moderately suited Strength	0.50
Quazar-----	40	Moderately suited Rock fragments	0.50	Poorly suited Slope Rock fragments	0.75 0.75	Moderately suited Strength	0.50
733: Adel-----	70	Well suited		Moderately suited Slope	0.50	Moderately suited Strength	0.50
Bucklon-----	20	Moderately suited Restrictive layer	0.50	Poorly suited Slope	0.75	Moderately suited Strength Slope	0.50 0.50
734: Ryman-----	60	Well suited		Moderately suited Slope	0.50	Moderately suited Strength	0.50
Clayburn-----	30	Well suited		Moderately suited Slope	0.50	Moderately suited Strength	0.50
740: Cowtown-----	50	Moderately suited Rock fragments	0.50	Poorly suited Slope Rock fragments	0.75 0.75	Moderately suited Strength	0.50
Scout-----	30	Moderately suited Rock fragments	0.50	Unsuited Rock fragments Slope	1.00 0.75	Moderately suited Strength	0.50
741: Cowtown-----	45	Moderately suited Slope Rock fragments	0.50 0.50	Unsuited Slope Rock fragments	1.00 0.75	Poorly suited Slope Strength	1.00 0.50

Table 10.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Suitability for hand planting		Suitability for mechanical planting		Suitability for use of harvesting equipment	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
741: Scout-----	35	Moderately suited Rock fragments Slope	0.50 0.50	Unsuited Slope Rock fragments	1.00 1.00	Poorly suited Slope Strength	1.00 0.50
750: Archuleta-----	50	Moderately suited Slope Rock fragments	0.50 0.50	Unsuited Slope Rock fragments	1.00 0.50	Poorly suited Slope Rock fragments Strength	1.00 0.50 0.50
Sheek-----	35	Moderately suited Rock fragments Slope	0.50 0.50	Unsuited Slope Rock fragments	1.00 1.00	Poorly suited Slope Rock fragments	1.00 0.50
801: Fughes-----	50	Moderately suited Rock fragments	0.50	Poorly suited Slope Rock fragments	0.75 0.50	Moderately suited Rock fragments Strength Slope	0.50 0.50 0.50
Sheek-----	35	Moderately suited Rock fragments	0.50	Poorly suited Slope Rock fragments	0.75 0.75	Poorly suited Rock fragments Strength Slope	1.00 0.50 0.50
802: Argiustolls-----	30	Moderately suited Rock fragments Slope	0.50 0.50	Unsuited Slope Rock fragments	1.00 1.00	Poorly suited Slope Rock fragments	1.00 0.50
Haplustalfs-----	30	Moderately suited Rock fragments Slope	0.50 0.50	Unsuited Slope Rock fragments	1.00 1.00	Poorly suited Rock fragments Slope	1.00 1.00
Rock outcrop-----	25	Not rated		Not rated		Not rated	
804: Wauquie-----	40	Moderately suited Rock fragments Slope	0.50 0.50	Unsuited Slope Rock fragments	1.00 0.75	Poorly suited Rock fragments Slope	1.00 1.00

Table 10.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Suitability for hand planting		Suitability for mechanical planting		Suitability for use of harvesting equipment	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
804: Dolcan-----	25	Moderately suited Rock fragments Slope	0.50 0.50	Unsuited Slope Rock fragments	1.00 0.75	Poorly suited Rock fragments Slope Strength	1.00 1.00 0.50
Rock outcrop-----	20	Not rated		Not rated		Not rated	
805: Shawa-----	50	Well suited		Poorly suited Slope	0.75	Moderately suited Strength	0.50
Fughes-----	40	Well suited		Poorly suited Slope	0.75	Moderately suited Strength	0.50
806: Shawa-----	45	Moderately suited Slope	0.50	Unsuited Slope Rock fragments	1.00 0.50	Poorly suited Slope Rock fragments Strength	1.00 0.50 0.50
Fughes-----	35	Moderately suited Slope	0.50	Unsuited Slope Rock fragments	1.00 0.50	Poorly suited Slope Rock fragments Strength	1.00 0.50 0.50
809: Argiustolls-----	45	Moderately suited Rock fragments Slope	0.50 0.50	Unsuited Slope Rock fragments	1.00 1.00	Poorly suited Slope	1.00
Haplustalfs-----	40	Moderately suited Rock fragments Slope	0.50 0.50	Unsuited Slope Rock fragments	1.00 1.00	Poorly suited Slope	1.00
813: Fughes-----	80	Well suited		Poorly suited Slope	0.75	Moderately suited Strength	0.50
814: Leaps-----	50	Well suited		Moderately suited Slope	0.50	Moderately suited Strength	0.50

Table 10.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Suitability for hand planting		Suitability for mechanical planting		Suitability for use of harvesting equipment	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
814: Hofly-----	35	Well suited		Moderately suited Slope	0.50	Moderately suited Strength	0.50
815: Behanco-----	45	Moderately suited Rock fragments	0.50	Poorly suited Rock fragments Slope	0.75 0.50	Well suited	
Powderhorn family---	40	Well suited		Moderately suited Slope	0.50	Moderately suited Strength	0.50
816: Storm-----	85	Moderately suited Rock fragments	0.50	Unsuited Rock fragments Slope	1.00 0.75	Moderately suited Slope	0.50
826: Ute-----	50	Moderately suited Wetness Stickiness	0.50 0.50	Moderately suited Wetness Stickiness	0.50 0.50	Poorly suited Wetness Strength	1.00 0.50
Frisco-----	40	Well suited		Moderately suited Slope Rock fragments	0.50 0.50	Moderately suited Strength	0.50
830: Dressel-----	55	Moderately suited Slope Rock fragments	0.50 0.50	Unsuited Slope Rock fragments	1.00 0.75	Poorly suited Slope Strength	1.00 0.50
Jersey-----	30	Moderately suited Rock fragments Slope	0.50 0.50	Unsuited Slope Rock fragments	1.00 0.75	Poorly suited Slope	1.00
832: Storm-----	85	Moderately suited Rock fragments	0.50	Unsuited Rock fragments Slope	1.00 0.50	Well suited	

Table 10.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Suitability for hand planting		Suitability for mechanical planting		Suitability for use of harvesting equipment	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
834: Haycamp-----	60	Moderately suited Slope Stickiness Rock fragments	0.50 0.50 0.50	Unsuited Slope Rock fragments Stickiness	1.00 0.75 0.50	Poorly suited Slope Strength	1.00 0.50
Jersey-----	25	Moderately suited Rock fragments Slope	0.50 0.50	Unsuited Slope Rock fragments	1.00 0.75	Poorly suited Slope	1.00
835: Brumley-----	85	Well suited		Well suited		Well suited	
860: Granath-----	55	Well suited		Moderately suited Slope	0.50	Moderately suited Strength	0.50
Nortez-----	30	Poorly suited Stickiness	0.75	Poorly suited Stickiness Slope	0.75 0.50	Moderately suited Strength	0.50
861: Morapos-----	80	Well suited		Moderately suited Slope	0.50	Moderately suited Strength	0.50
862: Granath-----	40	Well suited		Moderately suited Slope	0.50	Moderately suited Strength	0.50
Dolores-----	25	Poorly suited Rock fragments	0.75	Unsuited Rock fragments Slope	1.00 0.50	Moderately suited Strength	0.50
Fivepine-----	20	Moderately suited Stickiness	0.50	Moderately suited Rock fragments Stickiness Slope	0.50 0.50 0.50	Moderately suited Strength	0.50
863: Granath-----	40	Well suited		Moderately suited Slope	0.50	Moderately suited Strength	0.50

Table 10.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Suitability for hand planting		Suitability for mechanical planting		Suitability for use of harvesting equipment	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
863: Ormiston-----	25	Moderately suited Stickiness Rock fragments	0.50 0.50	Poorly suited Rock fragments Stickiness Slope	0.75 0.50 0.50	Moderately suited Rock fragments Strength	0.50 0.50
Fivepine-----	20	Moderately suited Stickiness	0.50	Moderately suited Rock fragments Stickiness Slope	0.50 0.50 0.50	Moderately suited Strength	0.50
890: Tamarron-----	45	Moderately suited Slope Rock fragments	0.50 0.50	Unsuited Slope Rock fragments	1.00 0.75	Poorly suited Slope Strength	1.00 0.50
Frisco-----	35	Moderately suited Slope	0.50	Unsuited Slope Rock fragments	1.00 0.50	Poorly suited Slope Strength	1.00 0.50
891: Tamarron-----	45	Moderately suited Rock fragments	0.50	Poorly suited Slope Rock fragments	0.75 0.75	Moderately suited Strength Slope	0.50 0.50
Frisco-----	40	Well suited		Poorly suited Slope Rock fragments	0.75 0.50	Moderately suited Strength Slope	0.50 0.50
901: Granath-----	45	Well suited		Moderately suited Slope	0.50	Moderately suited Strength	0.50
Zoltay-----	25	Well suited		Moderately suited Slope	0.50	Moderately suited Strength	0.50
Nortez-----	20	Poorly suited Stickiness	0.75	Poorly suited Stickiness Slope	0.75 0.50	Moderately suited Strength	0.50

Table 10.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Suitability for hand planting		Suitability for mechanical planting		Suitability for use of harvesting equipment	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
903: Anvik-----	85	Well suited		Unsuited Slope	1.00	Moderately suited Slope Strength	0.50 0.50
904: Beje-----	85	Well suited		Moderately suited Slope	0.50	Well suited	
905: Cryaquolls-----	95	Moderately suited Rock fragments	0.50	Poorly suited Rock fragments	0.75	Moderately suited Wetness Strength	0.50 0.50
906: Archuleta-----	80	Moderately suited Slope	0.50	Unsuited Slope	1.00	Poorly suited Slope Strength	1.00 0.50
907: Archuleta-----	45	Moderately suited Slope	0.50	Unsuited Slope	1.00	Poorly suited Slope Strength	1.00 0.50
Sanchez-----	30	Moderately suited Rock fragments	0.50	Unsuited Slope Rock fragments	1.00 0.75	Moderately suited Slope	0.50
908: Adel-----	85	Well suited		Poorly suited Slope	0.75	Moderately suited Strength	0.50
909: Adel-----	90	Well suited		Unsuited Slope	1.00	Moderately suited Slope Strength	0.50 0.50
917: Chris-----	85	Well suited		Poorly suited Slope Rock fragments	0.75 0.50	Moderately suited Strength	0.50

Table 10.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Suitability for hand planting		Suitability for mechanical planting		Suitability for use of harvesting equipment	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
919: Clayburn-----	90	Well suited		Moderately suited Slope	0.50	Moderately suited Strength	0.50
920: Clayburn-----	85	Moderately suited Rock fragments	0.50	Poorly suited Rock fragments Slope	0.75 0.75	Moderately suited Strength	0.50
926: Ustolls-----	45	Moderately suited Slope Rock fragments	0.50 0.50	Unsuited Slope Rock fragments	1.00 0.50	Poorly suited Slope Strength	1.00 0.50
Rock outcrop-----	40	Not rated		Not rated		Not rated	
930: Furtlewis-----	45	Moderately suited Rock fragments	0.50	Poorly suited Rock fragments Slope	0.75 0.75	Well suited	
Rock outcrop-----	35	Not rated		Not rated		Not rated	
934: Ceek-----	85	Moderately suited Rock fragments	0.50	Unsuited Rock fragments Slope	1.00 0.75	Moderately suited Slope Strength	0.50 0.50
937: Herm-----	85	Well suited		Poorly suited Slope	0.75	Moderately suited Strength	0.50
939: Ohwiler-----	90	Well suited		Moderately suited Slope	0.50	Moderately suited Strength	0.50
940: Horsethief-----	85	Moderately suited Rock fragments Slope	0.50 0.50	Unsuited Slope Rock fragments	1.00 0.50	Poorly suited Slope	1.00

Table 10.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Suitability for hand planting		Suitability for mechanical planting		Suitability for use of harvesting equipment	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
942: Fivepine-----	50	Moderately suited Stickiness	0.50	Moderately suited Rock fragments Stickiness Slope	0.50 0.50 0.50	Moderately suited Strength	0.50
Pino-----	35	Well suited		Moderately suited Slope	0.50	Moderately suited Strength	0.50
945: Nizhoni-----	35	Unsuited Restrictive layer	1.00	Unsuited Restrictive layer Slope	1.00 1.00	Moderately suited Slope Strength	0.50 0.50
Arabrab-----	30	Well suited		Moderately suited Slope	0.50	Well suited	
Rock outcrop-----	30	Not rated		Not rated		Not rated	
950: Pescar-----	80	Well suited		Well suited		Moderately suited Wetness	0.50
951: Endoaquolls-----	90	Well suited		Well suited		Moderately suited Wetness Strength	0.50 0.50
955: Umbarg-----	35	Well suited		Well suited		Moderately suited Strength	0.50
Winner-----	30	Well suited		Well suited		Moderately suited Wetness Strength	0.50 0.50
Tesajo-----	20	Moderately suited Rock fragments	0.50	Unsuited Rock fragments	1.00	Well suited	

Table 10.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Suitability for hand planting		Suitability for mechanical planting		Suitability for use of harvesting equipment	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
956: Ormiston-----	50	Moderately suited Stickiness Rock fragments	0.50 0.50	Unsuited Rock fragments Stickiness Slope	1.00 0.50 0.50	Moderately suited Rock fragments Strength	0.50 0.50
Granath-----	35	Well suited		Moderately suited Slope	0.50	Moderately suited Strength	0.50
958: Sheek-----	35	Moderately suited Rock fragments Slope	0.50 0.50	Unsuited Slope Rock fragments	1.00 0.75	Poorly suited Slope	1.00
Archuleta-----	30	Moderately suited Rock fragments Slope	0.50 0.50	Unsuited Slope Rock fragments	1.00 0.75	Poorly suited Slope	1.00
Rock outcrop-----	20	Not rated		Not rated		Not rated	
959: Granath-----	90	Well suited		Well suited		Moderately suited Strength	0.50
965: Narraguinnep-----	55	Moderately suited Stickiness	0.50	Moderately suited Slope Stickiness	0.50 0.50	Moderately suited Strength	0.50
Dapoin-----	30	Well suited		Moderately suited Slope	0.50	Moderately suited Strength	0.50
966: Cryaquepts-----	85	Moderately suited Rock fragments	0.50	Moderately suited Rock fragments	0.50	Moderately suited Wetness Strength	0.50 0.50
967: Quazar-----	40	Moderately suited Rock fragments	0.50	Poorly suited Slope Rock fragments	0.75 0.75	Moderately suited Strength	0.50

Table 10.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Suitability for hand planting		Suitability for mechanical planting		Suitability for use of harvesting equipment	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
967: Cryaquolls-----	25	Moderately suited Rock fragments	0.50	Poorly suited Rock fragments	0.75	Moderately suited Wetness Strength	0.50 0.50
Cryohemists-----	20	Moderately suited Wetness	0.50	Moderately suited Wetness	0.50	Poorly suited Wetness Strength	1.00 0.50
968: Nortez-----	50	Poorly suited Stickiness	0.75	Poorly suited Stickiness Slope	0.75 0.50	Moderately suited Strength	0.50
Granath-----	35	Well suited		Moderately suited Slope	0.50	Moderately suited Strength	0.50
969: Nortez-----	45	Poorly suited Stickiness	0.75	Poorly suited Stickiness Slope	0.75 0.50	Moderately suited Strength	0.50
Fivepine-----	40	Moderately suited Stickiness	0.50	Moderately suited Rock fragments Stickiness Slope	0.50 0.50 0.50	Moderately suited Strength	0.50
972: Pagoda-----	35	Well suited		Poorly suited Slope	0.75	Moderately suited Strength Slope	0.50 0.50
Coulterg-----	30	Well suited		Unsuited Slope	1.00	Moderately suited Slope Strength	0.50 0.50
Wiggler-----	20	Moderately suited Slope Restrictive layer	0.50 0.50	Unsuited Slope Rock fragments	1.00 0.50	Poorly suited Slope	1.00
989: Ryman-----	90	Well suited		Moderately suited Slope	0.50	Moderately suited Strength	0.50

Table 10.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Suitability for hand planting		Suitability for mechanical planting		Suitability for use of harvesting equipment	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
990: Ryman, warm-----	85	Well suited		Moderately suited Slope	0.50	Moderately suited Strength	0.50
992: Gladlow-----	85	Well suited		Moderately suited Slope	0.50	Moderately suited Strength	0.50
996: Zoltay-----	85	Well suited		Moderately suited Slope	0.50	Moderately suited Strength	0.50
997: Zigzag-----	40	Well suited		Poorly suited Slope	0.75	Moderately suited Strength Slope	0.50 0.50
Bodot-----	25	Moderately suited Stickiness	0.50	Poorly suited Slope Stickiness	0.75 0.50	Moderately suited Strength Slope	0.50 0.50
Rock outcrop-----	25	Not rated		Not rated		Not rated	

Table 11.--Forestland management

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the limitation. See text for further explanation of ratings in this table.)

Map symbol and soil name	Pct. of map unit	Suitability for mechanical site preparation (surface)		Suitability for mechanical site preparation (deep)	
		Rating class and limiting features	Value	Rating class and limiting features	Value
1: Bradfield-----	45	Well suited		Well suited	
Narraguinnep-----	40	Well suited		Well suited	
2: Hesperus-----	85	Well suited		Well suited	
10: Lillings-----	85	Well suited		Well suited	
12: Shawa-----	80	Well suited		Well suited	
13: Fughes-----	85	Well suited		Well suited	
14: Dalmatian-----	35	Well suited		Well suited	
Apmay-----	35	Well suited		Well suited	
Schrader-----	15	Well suited		Unsuited Wetness	1.00
15: Umbarg-----	80	Well suited		Well suited	
16: Payter-----	85	Well suited		Well suited	
17: Fluvaquents-----	55	Well suited		Unsuited Wetness	1.00
Haplustolls-----	30	Well suited		Well suited	
18: Endoaquolls-----	45	Well suited		Unsuited Wetness Rock fragments	1.00 0.50
Ustifluvents-----	40	Well suited		Poorly suited Rock fragments	0.50
20: Mavreeso-----	75	Poorly suited Slope	0.50	Poorly suited Slope	0.50
51: Clayburn-----	55	Poorly suited Slope	0.50	Poorly suited Slope	0.50

Table 11.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Suitability for mechanical site preparation (surface)		Suitability for mechanical site preparation (deep)	
		Rating class and limiting features	Value	Rating class and limiting features	Value
51: Hourglass-----	35	Poorly suited Slope	0.50	Poorly suited Slope	0.50
52: Ohwiler-----	80	Poorly suited Slope	0.50	Poorly suited Slope	0.50
53: Cryaquolls-----	50	Poorly suited Rock fragments	0.50	Unsuited Wetness	1.00
Typic Cryaquents----	35	Well suited		Unsuited Wetness	1.00
54: Quazar-----	90	Poorly suited Rock fragments	0.50	Poorly suited Rock fragments	0.50
56: Typic Cryaquents----	35	Well suited		Unsuited Wetness	1.00
Cryaquolls-----	30	Poorly suited Rock fragments	0.50	Unsuited Wetness	1.00
Cryofibrists-----	25	Poorly suited Wetness	0.50	Unsuited Wetness	1.00
57: Howardsville-----	80	Poorly suited Rock fragments	0.50	Well suited	
58: Fughes-----	55	Poorly suited Slope	0.50	Poorly suited Slope	0.50
Herm-----	35	Poorly suited Slope	0.50	Poorly suited Slope	0.50
59: Fughes-----	45	Poorly suited Slope	0.50	Poorly suited Slope	0.50
Herm-----	35	Poorly suited Slope Rock fragments	0.50 0.50	Poorly suited Slope	0.50
60: Grimes-----	90	Poorly suited Rock fragments	0.50	Well suited	
110: Sheek-----	45	Poorly suited Slope Rock fragments	0.50 0.50	Poorly suited Slope	0.50
Ormiston-----	35	Poorly suited Rock fragments	0.50	Well suited	

Table 11.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Suitability for mechanical site preparation (surface)		Suitability for mechanical site preparation (deep)	
		Rating class and limiting features	Value	Rating class and limiting features	Value
111: Fardraw-----	80	Well suited		Well suited	
113: Dolores-----	80	Unsuited Slope Rock fragments	1.00 0.50	Unsuited Slope	1.00
150: Silex-----	70	Poorly suited Slope	0.50	Unsuited Restrictive layer Slope	1.00 0.50
Rock outcrop-----	20	Not rated		Not rated	
151: Frisco-----	80	Poorly suited Slope	0.50	Poorly suited Slope	0.50
152: Frisco-----	80	Poorly suited Slope	0.50	Poorly suited Slope	0.50
153: Frisco-----	50	Poorly suited Slope	0.50	Poorly suited Slope	0.50
Horsethief-----	30	Poorly suited Slope	0.50	Poorly suited Slope	0.50
154: Frisco-----	60	Unsuited Slope	1.00	Unsuited Slope	1.00
Horsethief-----	25	Unsuited Slope	1.00	Unsuited Slope	1.00
155: Tuckerville-----	70	Unsuited Slope Rock fragments	1.00 0.50	Unsuited Slope	1.00
Rock outcrop-----	20	Not rated		Not rated	
156: Sponsor-----	60	Poorly suited Slope	0.50	Poorly suited Slope	0.50
Tuckerville-----	30	Poorly suited Slope	0.50	Poorly suited Slope	0.50
157: Sponsor-----	60	Poorly suited Slope Rock fragments	0.50 0.50	Poorly suited Slope	0.50
Tuckerville-----	30	Poorly suited Slope Rock fragments	0.50 0.50	Poorly suited Slope	0.50

Table 11.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Suitability for mechanical site preparation (surface)		Suitability for mechanical site preparation (deep)	
		Rating class and limiting features	Value	Rating class and limiting features	Value
158: Sponsor-----	60	Unsuited Slope	1.00	Unsuited Slope	1.00
Tuckerville-----	30	Unsuited Slope	1.00	Unsuited Slope	1.00
159: Tuckerville-----	80	Poorly suited Slope Rock fragments	0.50 0.50	Poorly suited Slope	0.50
160: Anvik-----	40	Poorly suited Slope	0.50	Poorly suited Slope	0.50
Tuckerville-----	35	Poorly suited Slope	0.50	Poorly suited Slope	0.50
161: Needleton-----	85	Poorly suited Rock fragments	0.50	Well suited	
162: Quazar-----	45	Unsuited Slope Rock fragments	1.00 0.50	Unsuited Slope Rock fragments	1.00 0.50
Varden-----	40	Unsuited Slope Rock fragments	1.00 0.50	Unsuited Slope Rock fragments	1.00 0.50
163: Clayburn-----	50	Poorly suited Slope	0.50	Poorly suited Slope	0.50
Hourglass-----	35	Poorly suited Slope	0.50	Poorly suited Slope	0.50
164: Hourglass-----	50	Unsuited Slope	1.00	Unsuited Slope	1.00
Bucklon-----	25	Unsuited Slope	1.00	Unsuited Slope	1.00
Wander-----	15	Unsuited Slope Rock fragments	1.00 0.50	Unsuited Slope	1.00
165: Pinacol-----	85	Well suited		Well suited	
166: Pinacol-----	80	Poorly suited Slope	0.50	Poorly suited Slope	0.50

Table 11.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Suitability for mechanical site preparation (surface)		Suitability for mechanical site preparation (deep)	
		Rating class and limiting features	Value	Rating class and limiting features	Value
250: Snowdon-----	55	Unsuited Slope Rock fragments	1.00 0.50	Unsuited Restrictive layer Slope Rock fragments	1.00 1.00 0.50
Rock outcrop-----	25	Not rated		Not rated	
251: Rock outcrop-----	60	Not rated		Not rated	
Snowdon-----	25	Unsuited Slope Rock fragments	1.00 0.50	Unsuited Slope Restrictive layer Rock fragments	1.00 1.00 0.50
254: Typic Cryorthents---	50	Unsuited Slope Rock fragments	1.00 0.50	Unsuited Slope	1.00
Rubble land-----	30	Not rated		Not rated	
330: Needleton-----	85	Poorly suited Slope Rock fragments	0.50 0.50	Poorly suited Slope	0.50
331: Needleton-----	80	Unsuited Slope Rock fragments	1.00 0.50	Unsuited Slope	1.00
332: Horsethief-----	55	Unsuited Slope Rock fragments	1.00 0.50	Unsuited Slope	1.00
Needleton-----	35	Unsuited Slope Rock fragments	1.00 0.50	Unsuited Slope	1.00
333: Henson, south aspect	85	Poorly suited Slope Rock fragments	0.50 0.50	Poorly suited Slope	0.50
334: Henson, south aspect	80	Unsuited Slope Rock fragments	1.00 0.50	Unsuited Slope	1.00
335: Whitecross-----	55	Poorly suited Slope Rock fragments	0.50 0.50	Unsuited Restrictive layer Slope	1.00 0.50
Rock outcrop-----	30	Not rated		Not rated	

Table 11.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Suitability for mechanical site preparation (surface)		Suitability for mechanical site preparation (deep)	
		Rating class and limiting features	Value	Rating class and limiting features	Value
336: Whitecross, south aspect-----	50	Unsuited Slope Rock fragments	1.00 1.00	Unsuited Restrictive layer Slope Rock fragments	1.00 1.00 0.50
Rock outcrop-----	25	Not rated		Not rated	
337: Whitecross-----	60	Unsuited Slope Rock fragments	1.00 1.00	Unsuited Slope Restrictive layer Rock fragments	1.00 1.00 0.50
Rock outcrop-----	25	Not rated		Not rated	
338: Henson-----	80	Poorly suited Slope Rock fragments	0.50 0.50	Poorly suited Slope	0.50
339: Henson-----	80	Unsuited Slope Rock fragments	1.00 0.50	Unsuited Slope	1.00
340: Moran-----	80	Poorly suited Slope Rock fragments	0.50 0.50	Poorly suited Slope	0.50
341: Moran-----	80	Unsuited Slope Rock fragments	1.00 0.50	Unsuited Slope	1.00
342: Telluride-----	60	Poorly suited Slope Rock fragments	0.50 0.50	Unsuited Restrictive layer Slope	1.00 0.50
Rock outcrop-----	20	Not rated		Not rated	
343: Telluride-----	60	Unsuited Slope Rock fragments	1.00 0.50	Unsuited Slope Restrictive layer	1.00 1.00
Rock outcrop-----	25	Not rated		Not rated	
345: Papaspila-----	85	Well suited		Well suited	
350: Flygare-----	45	Poorly suited Rock fragments	0.50	Well suited	
Foidel-----	40	Well suited		Well suited	

Table 11.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Suitability for mechanical site preparation (surface)		Suitability for mechanical site preparation (deep)	
		Rating class and limiting features	Value	Rating class and limiting features	Value
355: Flygare-----	45	Poorly suited Slope Rock fragments	0.50 0.50	Poorly suited Slope	0.50
Foidel-----	40	Poorly suited Slope	0.50	Poorly suited Slope	0.50
360: Blacksnag-----	45	Poorly suited Rock fragments	0.50	Well suited	
Peeler-----	40	Well suited		Well suited	
361: Blacksnag-----	45	Poorly suited Slope Rock fragments	0.50 0.50	Poorly suited Slope	0.50
Peeler-----	40	Poorly suited Slope	0.50	Poorly suited Slope	0.50
374: Mavreeso-----	35	Unsuited Slope	1.00	Unsuited Slope	1.00
Valto-----	30	Unsuited Slope Rock fragments	1.00 0.50	Unsuited Restrictive layer Slope	1.00 1.00
Rock outcrop-----	20	Not rated		Not rated	
375: Needleton-----	55	Poorly suited Rock fragments	0.50	Well suited	
Snowdon-----	30	Poorly suited Rock fragments	0.50	Unsuited Restrictive layer	1.00
376: Needleton-----	80	Poorly suited Slope	0.50	Poorly suited Slope	0.50
378: Needleton-----	65	Unsuited Slope	1.00	Unsuited Slope	1.00
Haviland-----	25	Unsuited Slope	1.00	Unsuited Slope	1.00
380: Snowdon-----	50	Poorly suited Rock fragments Slope	0.50 0.50	Unsuited Restrictive layer Slope Rock fragments	1.00 0.50 0.50
Rock outcrop-----	35	Not rated		Not rated	

Table 11.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Suitability for mechanical site preparation (surface)		Suitability for mechanical site preparation (deep)	
		Rating class and limiting features	Value	Rating class and limiting features	Value
381: Needleton-----	45	Unsuited Slope Rock fragments	1.00 0.50	Unsuited Slope	1.00
Snowdon-----	30	Unsuited Slope Rock fragments	1.00 0.50	Unsuited Restrictive layer Slope	1.00 1.00
Rock outcrop-----	15	Not rated		Not rated	
382: Needleton-----	50	Poorly suited Slope Rock fragments	0.50 0.50	Poorly suited Slope	0.50
Snowdon-----	30	Poorly suited Slope Rock fragments	0.50 0.50	Unsuited Restrictive layer Slope	1.00 0.50
383: Haviland-----	50	Poorly suited Slope	0.50	Poorly suited Slope	0.50
Needleton-----	35	Poorly suited Slope Rock fragments	0.50 0.50	Poorly suited Slope	0.50
386: Needleton-----	70	Unsuited Slope Rock fragments	1.00 0.50	Unsuited Slope	1.00
387: Frisco-----	50	Unsuited Slope Rock fragments	1.00 0.50	Unsuited Slope	1.00
Quazar-----	40	Unsuited Slope Rock fragments	1.00 0.50	Unsuited Slope	1.00
388: Frisco-----	50	Poorly suited Slope	0.50	Poorly suited Slope	0.50
Quazar-----	45	Poorly suited Slope Rock fragments	0.50 0.50	Poorly suited Slope	0.50
389: Seitz-----	85	Poorly suited Slope Rock fragments	0.50 0.50	Poorly suited Slope Rock fragments	0.50 0.50
390: Clayburn-----	40	Unsuited Slope	1.00	Unsuited Slope	1.00

Table 11.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Suitability for mechanical site preparation (surface)		Suitability for mechanical site preparation (deep)	
		Rating class and limiting features	Value	Rating class and limiting features	Value
390: Heisspitz-----	30	Unsuited Slope	1.00	Unsuited Slope Restrictive layer	1.00 1.00
391: Runlett-----	50	Poorly suited Slope	0.50	Poorly suited Slope Restrictive layer	0.50 0.50
Sessions-----	30	Poorly suited Slope	0.50	Poorly suited Slope	0.50
392: Runlett-----	30	Poorly suited Slope	0.50	Poorly suited Slope Restrictive layer	0.50 0.50
Needleton-----	30	Poorly suited Slope	0.50	Poorly suited Slope	0.50
Sessions-----	20	Poorly suited Slope	0.50	Poorly suited Slope	0.50
393: Heisspitz-----	50	Well suited		Unsuited Restrictive layer	1.00
Sessions-----	25	Well suited		Well suited	
Rock outcrop-----	20	Not rated		Not rated	
394: Clayburn-----	55	Poorly suited Slope	0.50	Poorly suited Slope	0.50
Heisspitz-----	30	Poorly suited Slope	0.50	Unsuited Restrictive layer Slope	1.00 0.50
395: Scout-----	85	Poorly suited Slope Rock fragments	0.50 0.50	Poorly suited Slope	0.50
396: Scout-----	85	Unsuited Slope Rock fragments	1.00 0.50	Unsuited Slope	1.00
399: Kite-----	40	Poorly suited Slope	0.50	Unsuited Restrictive layer Slope	1.00 0.50
Rock outcrop-----	35	Not rated		Not rated	

Table 11.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Suitability for mechanical site preparation (surface)		Suitability for mechanical site preparation (deep)	
		Rating class and limiting features	Value	Rating class and limiting features	Value
450: Lostlake-----	45	Unsuited Slope	1.00	Unsuited Restrictive layer Slope	1.00 1.00
Rock outcrop-----	35	Not rated		Not rated	
452: Dystrocryepts-----	55	Poorly suited Slope	0.50	Unsuited Restrictive layer Slope	1.00 0.50
Rock outcrop-----	35	Not rated		Not rated	
453: Sig-----	40	Poorly suited Slope Rock fragments	0.50 0.50	Unsuited Restrictive layer Slope	1.00 0.50
Rock outcrop-----	30	Not rated		Not rated	
Snowdon-----	20	Poorly suited Slope Rock fragments	0.50 0.50	Unsuited Restrictive layer Slope	1.00 0.50
454: Snowdon-----	35	Poorly suited Slope Rock fragments	0.50 0.50	Unsuited Restrictive layer Slope	1.00 0.50
Sig-----	30	Poorly suited Slope Rock fragments	0.50 0.50	Unsuited Restrictive layer Slope	1.00 0.50
Rock outcrop-----	25	Not rated		Not rated	
493: Badland-----	90	Not rated		Not rated	
494: Pits, gravel-----	100	Not rated		Not rated	
495: Riverwash-----	85	Not rated		Not rated	
496: Rock outcrop-----	70	Not rated		Not rated	
497: Rubble land-----	80	Not rated		Not rated	
498: Slickens-----	80	Not rated		Not rated	
499: Water-----	100	Not rated		Not rated	
500: Dolores-----	50	Poorly suited Rock fragments	0.50	Poorly suited Rock fragments	0.50

Table 11.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Suitability for mechanical site preparation (surface)		Suitability for mechanical site preparation (deep)	
		Rating class and limiting features	Value	Rating class and limiting features	Value
500: Fivepine-----	35	Well suited		Unsuited Restrictive layer	1.00
501: Fivepine-----	60	Well suited		Unsuited Restrictive layer	1.00
Nortez-----	25	Poorly suited Stickiness	0.50	Poorly suited Restrictive layer	0.50
503: Ormiston-----	50	Poorly suited Rock fragments	0.50	Well suited	
Fivepine-----	35	Well suited		Unsuited Restrictive layer	1.00
504: Jemco-----	40	Well suited		Well suited	
Detra-----	30	Well suited		Well suited	
Beje-----	20	Well suited		Unsuited Restrictive layer	1.00
505: Moento-----	80	Well suited		Well suited	
506: Moento-----	35	Well suited		Well suited	
Detra-----	30	Well suited		Well suited	
Jemco-----	20	Well suited		Well suited	
508: Herm-----	50	Well suited		Well suited	
Pagoda-----	35	Well suited		Well suited	
509: Burnson, dry-----	80	Well suited		Well suited	
510: Jemco-----	60	Well suited		Well suited	
Moento-----	25	Well suited		Well suited	
511: Granath-----	50	Well suited		Well suited	
Fughes-----	35	Well suited		Well suited	
512: Wetherill-----	85	Well suited		Well suited	
513: Maudrey-----	50	Well suited		Well suited	

Table 11.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Suitability for mechanical site preparation (surface)		Suitability for mechanical site preparation (deep)	
		Rating class and limiting features	Value	Rating class and limiting features	Value
513: Tombac-----	35	Well suited		Well suited	
525: Arabrab-----	85	Well suited		Unsuited Restrictive layer	1.00
526: Lonecone-----	80	Well suited		Well suited	
527: Ormiston-----	50	Poorly suited Rock fragments Slope	0.50 0.50	Poorly suited Slope	0.50
Beje-----	35	Poorly suited Rock fragments Slope	0.50 0.50	Unsuited Restrictive layer Slope	1.00 0.50
552: Burnson-----	80	Well suited		Well suited	
553: Burnson-----	50	Poorly suited Slope	0.50	Poorly suited Slope	0.50
Herm-----	30	Poorly suited Slope	0.50	Poorly suited Slope	0.50
571: Mancos-----	40	Well suited		Poorly suited Restrictive layer	0.50
Skisams-----	35	Well suited		Unsuited Restrictive layer	1.00
Skutum-----	20	Well suited		Well suited	
572: Sudduth-----	85	Well suited		Well suited	
600: Valto-----	50	Unsuited Slope Rock fragments	1.00 0.50	Unsuited Restrictive layer Slope	1.00 1.00
Rock outcrop-----	35	Not rated		Not rated	
601: Weminuche-----	85	Unsuited Slope	1.00	Unsuited Slope	1.00
602: Weminuche-----	85	Poorly suited Slope	0.50	Poorly suited Slope	0.50
603: Weminuche-----	55	Unsuited Slope	1.00	Unsuited Slope	1.00

Table 11.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Suitability for mechanical site preparation (surface)		Suitability for mechanical site preparation (deep)	
		Rating class and limiting features	Value	Rating class and limiting features	Value
603: Anvik-----	25	Unsuited Slope	1.00	Unsuited Slope	1.00
605: Nordicol-----	80	Poorly suited Slope Rock fragments	0.50 0.50	Poorly suited Slope	0.50
606: Snowdon-----	50	Unsuited Slope Rock fragments	1.00 1.00	Unsuited Slope Restrictive layer Rock fragments	1.00 1.00 0.50
Needleton-----	35	Unsuited Slope Rock fragments	1.00 1.00	Unsuited Slope Rock fragments	1.00 0.50
607: Graysill-----	45	Unsuited Slope	1.00	Unsuited Slope Restrictive layer	1.00 0.50
Scotch-----	35	Unsuited Slope	1.00	Unsuited Restrictive layer Slope	1.00 1.00
608: Scotch-----	45	Unsuited Slope	1.00	Unsuited Restrictive layer Slope	1.00 1.00
Graysill-----	35	Unsuited Slope	1.00	Unsuited Slope Restrictive layer	1.00 0.50
609: Hourglass-----	50	Poorly suited Slope	0.50	Poorly suited Slope	0.50
Wander-----	35	Poorly suited Slope Rock fragments	0.50 0.50	Poorly suited Slope	0.50
610: Wander-----	45	Unsuited Slope Rock fragments	1.00 0.50	Unsuited Slope Rock fragments	1.00 0.50
Hotter-----	30	Unsuited Slope Rock fragments	1.00 0.50	Unsuited Slope Restrictive layer Rock fragments	1.00 1.00 0.50
Hourglass-----	15	Unsuited Slope	1.00	Unsuited Slope	1.00

Table 11.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Suitability for mechanical site preparation (surface)		Suitability for mechanical site preparation (deep)	
		Rating class and limiting features	Value	Rating class and limiting features	Value
611: Goldbug-----	85	Poorly suited Rock fragments Slope	0.50 0.50	Poorly suited Rock fragments Slope	0.50 0.50
612: Haviland-----	50	Poorly suited Slope	0.50	Poorly suited Slope	0.50
Graysill-----	35	Poorly suited Slope	0.50	Poorly suited Restrictive layer Slope	0.50 0.50
615: Haviland-----	75	Unsuited Slope	1.00	Unsuited Slope	1.00
616: Fortlewis-----	85	Poorly suited Rock fragments	0.50	Well suited	
617: Shawa-----	85	Well suited		Well suited	
618: Nordicol-----	50	Unsuited Slope Rock fragments	1.00 0.50	Unsuited Slope	1.00
Valto-----	35	Unsuited Slope Rock fragments	1.00 0.50	Unsuited Restrictive layer Slope	1.00 1.00
619: Nordicol-----	80	Unsuited Slope Rock fragments	1.00 1.00	Unsuited Slope Rock fragments	1.00 0.50
620: Caviness-----	90	Poorly suited Slope Rock fragments	0.50 0.50	Poorly suited Slope	0.50
621: Granturk-----	85	Poorly suited Slope	0.50	Unsuited Restrictive layer Slope	1.00 0.50
622: Granturk-----	60	Unsuited Slope	1.00	Unsuited Restrictive layer Slope	1.00 1.00
Rock outcrop-----	30	Not rated		Not rated	
623: Chris-----	50	Poorly suited Slope	0.50	Poorly suited Slope	0.50

Table 11.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Suitability for mechanical site preparation (surface)		Suitability for mechanical site preparation (deep)	
		Rating class and limiting features	Value	Rating class and limiting features	Value
623: Nordicol-----	40	Poorly suited Slope Rock fragments	0.50 0.50	Poorly suited Slope	0.50
699: Haplocryolls-----	40	Poorly suited Slope Rock fragments	0.50 0.50	Poorly suited Slope	0.50
Rubble land-----	40	Not rated		Not rated	
700: Bradfield-----	90	Well suited		Well suited	
703: Narraguinnep-----	80	Poorly suited Slope	0.50	Poorly suited Slope	0.50
704: Gladlow-----	30	Well suited		Well suited	
Rock outcrop-----	30	Not rated		Not rated	
Ruko-----	20	Well suited		Well suited	
705: Helmet-----	80	Well suited		Well suited	
706: Narraguinnep-----	85	Well suited		Well suited	
707: Teedown-----	50	Well suited		Well suited	
Nordicol-----	35	Poorly suited Rock fragments	0.50	Well suited	
708: Helmet-----	80	Unsuited Slope	1.00	Unsuited Slope	1.00
709: Teedown-----	85	Well suited		Well suited	
710: Sili-----	50	Well suited		Well suited	
Zigzag-----	30	Well suited		Well suited	
711: Sili-----	85	Well suited		Well suited	
714: Helmet-----	80	Poorly suited Slope	0.50	Poorly suited Slope	0.50
718: Narraguinnep-----	50	Poorly suited Slope	0.50	Poorly suited Slope	0.50

Table 11.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Suitability for mechanical site preparation (surface)		Suitability for mechanical site preparation (deep)	
		Rating class and limiting features	Value	Rating class and limiting features	Value
718: Gladlow-----	40	Poorly suited Slope	0.50	Poorly suited Slope	0.50
720: Zigzag-----	45	Unsuited Slope	1.00	Unsuited Slope	1.00
Rock outcrop-----	35	Not rated		Not rated	
723: Zigzag-----	50	Poorly suited Slope	0.50	Poorly suited Slope	0.50
Rock outcrop-----	40	Not rated		Not rated	
725: Shawa-----	85	Poorly suited Slope	0.50	Poorly suited Slope	0.50
727: Teedown-----	50	Poorly suited Slope	0.50	Poorly suited Slope	0.50
Nordicol-----	35	Poorly suited Slope Rock fragments	0.50 0.50	Poorly suited Slope	0.50
730: Baird Hollow-----	35	Poorly suited Slope	0.50	Poorly suited Slope	0.50
Nordicol-----	30	Poorly suited Slope Rock fragments	0.50 0.50	Poorly suited Slope	0.50
Ryman-----	25	Poorly suited Slope	0.50	Poorly suited Slope	0.50
731: Ryman-----	60	Well suited		Well suited	
Adel-----	30	Well suited		Well suited	
732: Adel-----	50	Poorly suited Slope	0.50	Poorly suited Slope	0.50
Quazar-----	40	Poorly suited Slope Rock fragments	0.50 0.50	Poorly suited Slope	0.50
733: Adel-----	70	Poorly suited Slope	0.50	Poorly suited Slope	0.50
Bucklon-----	20	Poorly suited Slope	0.50	Poorly suited Slope	0.50

Table 11.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Suitability for mechanical site preparation (surface)		Suitability for mechanical site preparation (deep)	
		Rating class and limiting features	Value	Rating class and limiting features	Value
734: Ryman-----	60	Well suited		Well suited	
Clayburn-----	30	Well suited		Well suited	
740: Cowtown-----	50	Poorly suited Slope Rock fragments	0.50 0.50	Poorly suited Slope	0.50
Scout-----	30	Poorly suited Slope Rock fragments	0.50 0.50	Poorly suited Slope	0.50
741: Cowtown-----	45	Unsuited Slope Rock fragments	1.00 0.50	Unsuited Slope	1.00
Scout-----	35	Unsuited Slope Rock fragments	1.00 0.50	Unsuited Slope	1.00
750: Archuleta-----	50	Unsuited Slope Rock fragments	1.00 0.50	Unsuited Slope	1.00
Sheek-----	35	Unsuited Slope Rock fragments	1.00 0.50	Unsuited Slope	1.00
801: Fughes-----	50	Poorly suited Rock fragments Slope	0.50 0.50	Poorly suited Slope Rock fragments	0.50 0.50
Sheek-----	35	Unsuited Rock fragments Slope	1.00 0.50	Poorly suited Slope Rock fragments	0.50 0.50
802: Argiustolls-----	30	Unsuited Slope Rock fragments	1.00 0.50	Unsuited Slope Rock fragments	1.00 0.50
Haplustalfs-----	30	Unsuited Slope Rock fragments	1.00 1.00	Unsuited Slope Rock fragments	1.00 0.50
Rock outcrop-----	25	Not rated		Not rated	
804: Wauquie-----	40	Unsuited Slope Rock fragments	1.00 1.00	Unsuited Slope Rock fragments	1.00 0.50
Dolcan-----	25	Unsuited Slope Rock fragments	1.00 1.00	Unsuited Slope Rock fragments	1.00 0.50

Table 11.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Suitability for mechanical site preparation (surface)		Suitability for mechanical site preparation (deep)	
		Rating class and limiting features	Value	Rating class and limiting features	Value
804: Rock outcrop-----	20	Not rated		Not rated	
805: Shawa-----	50	Poorly suited Slope	0.50	Poorly suited Slope	0.50
Fughes-----	40	Poorly suited Slope	0.50	Poorly suited Slope	0.50
806: Shawa-----	45	Unsuited Slope Rock fragments	1.00 0.50	Unsuited Slope	1.00
Fughes-----	35	Unsuited Slope Rock fragments	1.00 0.50	Unsuited Slope	1.00
809: Argiustolls-----	45	Unsuited Slope Rock fragments	1.00 0.50	Unsuited Slope	1.00
Haplustalfs-----	40	Unsuited Slope Rock fragments	1.00 0.50	Unsuited Slope	1.00
813: Fughes-----	80	Poorly suited Slope	0.50	Poorly suited Slope	0.50
814: Leaps-----	50	Poorly suited Slope	0.50	Poorly suited Slope	0.50
Hofly-----	35	Poorly suited Slope	0.50	Poorly suited Slope	0.50
815: Behanco-----	45	Poorly suited Rock fragments	0.50	Well suited	
Powderhorn family---	40	Well suited		Well suited	
816: Storm-----	85	Poorly suited Slope Rock fragments	0.50 0.50	Poorly suited Slope Rock fragments	0.50 0.50
826: Ute-----	50	Poorly suited Wetness	0.50	Unsuited Wetness	1.00
Frisco-----	40	Well suited		Well suited	
830: Dressel-----	55	Unsuited Slope Rock fragments	1.00 0.50	Unsuited Slope	1.00

Table 11.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Suitability for mechanical site preparation (surface)		Suitability for mechanical site preparation (deep)	
		Rating class and limiting features	Value	Rating class and limiting features	Value
830: Jersey-----	30	Unsuited Slope Rock fragments	1.00 0.50	Unsuited Slope	1.00
832: Storm-----	85	Poorly suited Rock fragments	0.50	Poorly suited Rock fragments	0.50
834: Haycamp-----	60	Unsuited Slope Rock fragments	1.00 0.50	Unsuited Slope	1.00
Jersey-----	25	Unsuited Slope Rock fragments	1.00 0.50	Unsuited Slope	1.00
835: Brumley-----	85	Well suited		Well suited	
860: Granath-----	55	Well suited		Well suited	
Nortez-----	30	Poorly suited Stickiness	0.50	Poorly suited Restrictive layer	0.50
861: Morapos-----	80	Well suited		Well suited	
862: Granath-----	40	Well suited		Well suited	
Dolores-----	25	Poorly suited Rock fragments	0.50	Poorly suited Rock fragments	0.50
Fivepine-----	20	Well suited		Unsuited Restrictive layer	1.00
863: Granath-----	40	Well suited		Well suited	
Ormiston-----	25	Poorly suited Rock fragments	0.50	Well suited	
Fivepine-----	20	Well suited		Unsuited Restrictive layer	1.00
890: Tamarron-----	45	Unsuited Slope Rock fragments	1.00 0.50	Unsuited Slope	1.00
Frisco-----	35	Unsuited Slope	1.00	Unsuited Slope	1.00
891: Tamarron-----	45	Poorly suited Slope Rock fragments	0.50 0.50	Poorly suited Slope	0.50

Table 11.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Suitability for mechanical site preparation (surface)		Suitability for mechanical site preparation (deep)	
		Rating class and limiting features	Value	Rating class and limiting features	Value
891: Frisco-----	40	Poorly suited Slope	0.50	Poorly suited Slope	0.50
901: Granath-----	45	Well suited		Well suited	
Zoltay-----	25	Well suited		Well suited	
Nortez-----	20	Poorly suited Stickiness	0.50	Poorly suited Restrictive layer	0.50
903: Anvik-----	85	Poorly suited Slope	0.50	Poorly suited Slope	0.50
904: Beje-----	85	Well suited		Unsuited Restrictive layer	1.00
905: Cryaquolls-----	95	Poorly suited Rock fragments	0.50	Unsuited Wetness	1.00
906: Archuleta-----	80	Unsuited Slope	1.00	Unsuited Slope	1.00
907: Archuleta-----	45	Unsuited Slope	1.00	Unsuited Slope	1.00
Sanchez-----	30	Poorly suited Slope	0.50	Unsuited Restrictive layer Slope	1.00 0.50
		Rock fragments	0.50		
908: Adel-----	85	Poorly suited Slope	0.50	Poorly suited Slope	0.50
909: Adel-----	90	Poorly suited Slope	0.50	Poorly suited Slope	0.50
917: Chris-----	85	Poorly suited Slope	0.50	Poorly suited Slope	0.50
919: Clayburn-----	90	Well suited		Well suited	
920: Clayburn-----	85	Poorly suited Slope	0.50	Poorly suited Slope	0.50
		Rock fragments	0.50		
926: Ustolls-----	45	Unsuited Slope	1.00	Unsuited Slope	1.00
		Rock fragments	0.50		

Table 11.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Suitability for mechanical site preparation (surface)		Suitability for mechanical site preparation (deep)	
		Rating class and limiting features	Value	Rating class and limiting features	Value
926: Rock outcrop-----	40	Not rated		Not rated	
930: Furtlewis-----	45	Poorly suited Slope Rock fragments	0.50 0.50	Poorly suited Slope	0.50
Rock outcrop-----	35	Not rated		Not rated	
934: Ceek-----	85	Poorly suited Slope Rock fragments	0.50 0.50	Poorly suited Slope	0.50
937: Herm-----	85	Poorly suited Slope	0.50	Poorly suited Slope	0.50
939: Ohwiler-----	90	Well suited		Well suited	
940: Horsethief-----	85	Unsuited Slope Rock fragments	1.00 0.50	Unsuited Slope	1.00
942: Fivepine-----	50	Well suited		Unsuited Restrictive layer	1.00
Pino-----	35	Well suited		Poorly suited Restrictive layer	0.50
945: Nizhoni-----	35	Unsuited Restrictive layer Slope	1.00 0.50	Unsuited Restrictive layer Slope	1.00 0.50
Arabrab-----	30	Well suited		Unsuited Restrictive layer	1.00
Rock outcrop-----	30	Not rated		Not rated	
950: Pescar-----	80	Well suited		Unsuited Wetness	1.00
951: Endoaquolls-----	90	Well suited		Unsuited Wetness	1.00
955: Umbarg-----	35	Well suited		Well suited	
Winner-----	30	Well suited		Unsuited Wetness	1.00
Tesajo-----	20	Poorly suited Rock fragments	0.50	Well suited	

Table 11.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Suitability for mechanical site preparation (surface)		Suitability for mechanical site preparation (deep)	
		Rating class and limiting features	Value	Rating class and limiting features	Value
956: Ormiston-----	50	Poorly suited Rock fragments	0.50	Well suited	
Granath-----	35	Well suited		Well suited	
958: Sheek-----	35	Unsuited Slope Rock fragments	1.00 0.50	Unsuited Slope	1.00
Archuleta-----	30	Unsuited Slope Rock fragments	1.00 0.50	Unsuited Slope	1.00
Rock outcrop-----	20	Not rated		Not rated	
959: Granath-----	90	Well suited		Well suited	
965: Narraguinnep-----	55	Well suited		Well suited	
Dapoin-----	30	Well suited		Well suited	
966: Cryaquepts-----	85	Poorly suited Rock fragments	0.50	Unsuited Wetness Rock fragments Restrictive layer	1.00 0.50 0.50
967: Quazar-----	40	Poorly suited Slope Rock fragments	0.50 0.50	Poorly suited Slope	0.50
Cryaquolls-----	25	Poorly suited Rock fragments	0.50	Unsuited Wetness	1.00
Cryohemists-----	20	Poorly suited Wetness	0.50	Unsuited Wetness	1.00
968: Nortez-----	50	Poorly suited Stickiness	0.50	Poorly suited Restrictive layer	0.50
Granath-----	35	Well suited		Well suited	
969: Nortez-----	45	Poorly suited Stickiness	0.50	Poorly suited Restrictive layer	0.50
Fivepine-----	40	Well suited		Unsuited Restrictive layer	1.00
972: Pagoda-----	35	Poorly suited Slope	0.50	Poorly suited Slope	0.50

Table 11.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Suitability for mechanical site preparation (surface)		Suitability for mechanical site preparation (deep)	
		Rating class and limiting features	Value	Rating class and limiting features	Value
972: Coulterg-----	30	Poorly suited Slope	0.50	Poorly suited Slope	0.50
Wiggler-----	20	Unsuited Slope	1.00	Unsuited Slope	1.00
989: Ryman-----	90	Well suited		Well suited	
990: Ryman, warm-----	85	Well suited		Well suited	
992: Gladlow-----	85	Well suited		Well suited	
996: Zoltay-----	85	Well suited		Well suited	
997: Zigzag-----	40	Poorly suited Slope	0.50	Poorly suited Slope	0.50
Bodot-----	25	Poorly suited Slope	0.50	Poorly suited Slope	0.50
Rock outcrop-----	25	Not rated		Not rated	

Table 12.--Forestland management

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the limitation. See text for further explanation of ratings in this table.)

Map symbol and soil name	Pct. of map unit	Potential for damage to soil by fire		Potential for seedling mortality	
		Rating class and limiting features	Value	Rating class and limiting features	Value
1: Bradfield-----	45	Low		Moderate Available water	0.50
Narraguinnep-----	40	Low		Moderate Available water	0.50
2: Hesperus-----	85	Low		Moderate Available water	0.50
10: Lillings-----	85	Moderate Texture/coarse fragments	0.50	High Salinity Available water Soil reaction	1.00 0.50 0.50
12: Shawa-----	80	Low Texture/coarse fragments	0.10	Moderate Available water	0.50
13: Fughes-----	85	Low		Low	
14: Dalmatian-----	35	Low		Moderate Available water	0.50
Apmay-----	35	Low		Low	
Schrader-----	15	Low		Low	
15: Umbarg-----	80	Low Texture/coarse fragments	0.10	Moderate Available water	0.50
16: Payter-----	85	Low		Moderate Available water	0.50
17: Fluvaquents-----	55	High Texture/coarse fragments	1.00	Low	
Haplustolls-----	30	Low		Low	
18: Endoaquolls-----	45	Low		High Wetness	1.00

Table 12.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Potential for damage to soil by fire		Potential for seedling mortality	
		Rating class and limiting features	Value	Rating class and limiting features	Value
18: Ustifluvents-----	40	Low Texture/coarse fragments	0.10	Low	
20: Mavreeso-----	75	Low Texture/coarse fragments	0.10	Low	
51: Clayburn-----	55	Low Texture/coarse fragments	0.10	Low	
Hourglass-----	35	Low Texture/coarse fragments	0.10	Low	
52: Ohwiler-----	80	Low Texture/coarse fragments	0.10	Low	
53: Cryaquolls-----	50	Low Texture/coarse fragments	0.10	High Wetness	1.00
Typic Cryaquents----	35	Moderate Texture/coarse fragments	0.50	High Wetness	1.00
54: Quazar-----	90	Moderate Texture/surface depth/coarse fragments	0.50	Low	
56: Typic Cryaquents----	35	Moderate Texture/coarse fragments	0.50	High Wetness	1.00
Cryaquolls-----	30	Low Texture/coarse fragments	0.10	High Wetness	1.00
Cryofibrists-----	25	High Texture/coarse fragments Texture/surface depth/coarse fragments	1.00 1.00	High Wetness Soil reaction	1.00 1.00
57: Howardsville-----	80	Low		Moderate Available water	0.50

Table 12.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Potential for damage to soil by fire		Potential for seedling mortality	
		Rating class and limiting features	Value	Rating class and limiting features	Value
58: Fughes-----	55	Low Texture/coarse fragments	0.10	Low	
Herm-----	35	Low Texture/coarse fragments	0.10	Moderate Available water	0.50
59: Fughes-----	45	Low Texture/coarse fragments	0.10	Low	
Herm-----	35	Low		Low	
60: Grimes-----	90	Low		High Available water	1.00
110: Sheek-----	45	Low		Low	
Ormiston-----	35	Low Texture/coarse fragments	0.10	Moderate Available water	0.50
111: Fardraw-----	80	Low Texture/coarse fragments	0.10	Moderate Available water	0.50
113: Dolores-----	80	Low		Low	
150: Silex-----	70	Low		Low	
Rock outcrop-----	20	Not rated		Not rated	
151: Frisco-----	80	Low		Low	
152: Frisco-----	80	High Texture/slope/ surface depth/ coarse fragments	1.00	Low	
153: Frisco-----	50	Low		Low	
Horsethief-----	30	Low		Low	
154: Frisco-----	60	High Texture/slope/ surface depth/ coarse fragments	1.00	Low	

Table 12.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Potential for damage to soil by fire		Potential for seedling mortality	
		Rating class and limiting features	Value	Rating class and limiting features	Value
154: Horsethief-----	25	High Texture/slope/ surface depth/ coarse fragments	1.00	Low	
155: Tuckerville-----	70	High Texture/slope/ surface depth/ coarse fragments	1.00	Low	
Rock outcrop-----	20	Not rated		Not rated	
156: Sponsor-----	60	Low Texture/coarse fragments	0.10	Low	
Tuckerville-----	30	Low		Low	
157: Sponsor-----	60	Low Texture/coarse fragments	0.10	Low	
Tuckerville-----	30	Low		Low	
158: Sponsor-----	60	Low		Low	
Tuckerville-----	30	Moderate Texture/slope/ surface depth/ coarse fragments	1.00	Low	
159: Tuckerville-----	80	High Texture/slope/ surface depth/ coarse fragments	1.00	Low	
160: Anvik-----	40	Low Texture/coarse fragments	0.10	Low	
Tuckerville-----	35	Low		Low	
161: Needleton-----	85	Moderate Texture/coarse fragments	0.50	Low	
162: Quazar-----	45	Low		Low	
Varden-----	40	Low		Low	

Table 12.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Potential for damage to soil by fire		Potential for seedling mortality	
		Rating class and limiting features	Value	Rating class and limiting features	Value
163: Clayburn-----	50	Low Texture/coarse fragments	0.10	Low	
Hourglass-----	35	Low Texture/coarse fragments	0.10	Low	
164: Hourglass-----	50	Low Texture/coarse fragments	0.10	Low	
Bucklon-----	25	Low		Low	
Wander-----	15	Low		Low	
165: Pinacol-----	85	Low		Moderate Available water	0.50
166: Pinacol-----	80	Low		Low	
250: Snowdon-----	55	High Texture/slope/ surface depth/ coarse fragments	1.00	Low	
Rock outcrop-----	25	Not rated		Not rated	
251: Rock outcrop-----	60	Not rated		Not rated	
Snowdon-----	25	High Texture/slope/ surface depth/ coarse fragments	1.00	Low	
254: Typic Cryorthents---	50	Low		Low	
Rubble land-----	30	Not rated		Not rated	
330: Needleton-----	85	Moderate Texture/coarse fragments	0.50	Low	
331: Needleton-----	80	Moderate Texture/coarse fragments	0.50	Low	
332: Horsethief-----	55	High Texture/coarse fragments	1.00	Low	

Table 12.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Potential for damage to soil by fire		Potential for seedling mortality	
		Rating class and limiting features	Value	Rating class and limiting features	Value
332: Needleton-----	35	Moderate Texture/coarse fragments	0.50	Low	
333: Henson, south aspect	85	Moderate Texture/surface depth/coarse fragments	0.50	Moderate Available water	0.50
334: Henson, south aspect	80	Low		Low	
335: Whitecross-----	55	Low		Low	
Rock outcrop-----	30	Not rated		Not rated	
336: Whitecross, south aspect-----	50	Low		Low	
Rock outcrop-----	25	Not rated		Not rated	
337: Whitecross-----	60	Low		Low	
Rock outcrop-----	25	Not rated		Not rated	
338: Henson-----	80	Moderate Texture/surface depth/coarse fragments	0.50	Low	
339: Henson-----	80	Low		Low	
340: Moran-----	80	Low		Low	
341: Moran-----	80	Low		Low	
342: Telluride-----	60	Moderate Texture/slope/ coarse fragments	0.50	Low	
Rock outcrop-----	20	Not rated		Not rated	
343: Telluride-----	60	Moderate Texture/slope/ coarse fragments	0.50	Low	
Rock outcrop-----	25	Not rated		Not rated	

Table 12.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Potential for damage to soil by fire		Potential for seedling mortality	
		Rating class and limiting features	Value	Rating class and limiting features	Value
345: Papaspila-----	85	Low		Low	
350: Flygare-----	45	Low		Low	
Foidel-----	40	Low Texture/coarse fragments	0.10	Low	
355: Flygare-----	45	Low		Low	
Foidel-----	40	Low Texture/coarse fragments	0.10	Low	
360: Blacksnag-----	45	High Texture/surface depth/coarse fragments	1.00	Low	
Peeler-----	40	Low		Low	
361: Blacksnag-----	45	High Texture/surface depth/coarse fragments	1.00	Low	
Peeler-----	40	Low		Low	
374: Mavreeso-----	35	Low		Low	
Valto-----	30	High Texture/slope/ surface depth/ coarse fragments	1.00	Low	
Rock outcrop-----	20	Not rated		Not rated	
375: Needleton-----	55	Moderate Texture/coarse fragments	0.50	Low	
Snowdon-----	30	Low		Low	
376: Needleton-----	80	Moderate Texture/coarse fragments	0.50	Low	
378: Needleton-----	65	Moderate Texture/coarse fragments	0.50	Low	

Table 12.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Potential for damage to soil by fire		Potential for seedling mortality	
		Rating class and limiting features	Value	Rating class and limiting features	Value
378: Haviland-----	25	Low		Low	
380: Snowdon-----	50	Low		Low	
Rock outcrop-----	35	Not rated		Not rated	
381: Needleton-----	45	Moderate Texture/coarse fragments	0.50	Low	
Snowdon-----	30	High Texture/slope/ surface depth/ coarse fragments	1.00	Low	
Rock outcrop-----	15	Not rated		Not rated	
382: Needleton-----	50	Moderate Texture/coarse fragments	0.50	Low	
Snowdon-----	30	High Texture/surface depth/coarse fragments	1.00	Low	
383: Haviland-----	50	Low Texture/coarse fragments	0.10	Low	
Needleton-----	35	Moderate Texture/coarse fragments	0.50	Low	
386: Needleton-----	70	Moderate Texture/coarse fragments	0.50	Low	
387: Frisco-----	50	High Texture/slope/ surface depth/ coarse fragments	1.00	Low	
Quazar-----	40	Low		Low	
388: Frisco-----	50	Low		Low	
Quazar-----	45	Low		Low	
389: Seitz-----	85	Low		Low	

Table 12.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Potential for damage to soil by fire		Potential for seedling mortality	
		Rating class and limiting features	Value	Rating class and limiting features	Value
390: Clayburn-----	40	Low		Low	
Heisspitz-----	30	Low Texture/coarse fragments	0.10	Low	
391: Runlett-----	50	Low Texture/coarse fragments	0.10	Low	
Sessions-----	30	Low		Low	
392: Runlett-----	30	Low Texture/coarse fragments	0.10	Low	
Needleton-----	30	Moderate Texture/coarse fragments	0.50	Low	
Sessions-----	20	Moderate Texture/slope/ surface depth/ coarse fragments	1.00	Low	
393: Heisspitz-----	50	Low Texture/coarse fragments	0.10	Low	
Sessions-----	25	Low		Low	
Rock outcrop-----	20	Not rated		Not rated	
394: Clayburn-----	55	Low Texture/coarse fragments	0.10	Low	
Heisspitz-----	30	Low Texture/coarse fragments	0.10	Low	
395: Scout-----	85	Low		Low	
396: Scout-----	85	Moderate Texture/slope/ surface depth/ coarse fragments	0.50	Low	
399: Kite-----	40	Low		Low	
Rock outcrop-----	35	Not rated		Not rated	

Table 12.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Potential for damage to soil by fire		Potential for seedling mortality	
		Rating class and limiting features	Value	Rating class and limiting features	Value
450: Lostlake-----	45	High Texture/slope/ surface depth/ coarse fragments	1.00	Low	
Rock outcrop-----	35	Not rated		Not rated	
452: Dystrocryepts-----	55	Low		Low	
Rock outcrop-----	35	Not rated		Not rated	
453: Sig-----	40	Low		Low	
Rock outcrop-----	30	Not rated		Not rated	
Snowdon-----	20	High Texture/slope/ surface depth/ coarse fragments	1.00	Low	
454: Snowdon-----	35	High Texture/slope/ surface depth/ coarse fragments	1.00	Low	
Sig-----	30	Low		Low	
Rock outcrop-----	25	Not rated		Not rated	
493: Badland-----	90	Not rated		Not rated	
494: Pits, gravel-----	100	Not rated		Not rated	
495: Riverwash-----	85	Not rated		Not rated	
496: Rock outcrop-----	70	Not rated		Not rated	
497: Rubble land-----	80	Not rated		Not rated	
498: Slickens-----	80	Not rated		Not rated	
499: Water-----	100	Not rated		Not rated	
500: Dolores-----	50	Low		High Available water	1.00
Fivepine-----	35	Low		High Available water	1.00

Table 12.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Potential for damage to soil by fire		Potential for seedling mortality	
		Rating class and limiting features	Value	Rating class and limiting features	Value
501: Fivepine-----	60	Low		High Available water	1.00
Nortez-----	25	Low		Moderate Available water	0.50
503: Ormiston-----	50	Low Texture/coarse fragments	0.10	Moderate Available water	0.50
Fivepine-----	35	Low		High Available water	1.00
504: Jemco-----	40	Low		Moderate Available water	0.50
Detra-----	30	Low Texture/coarse fragments	0.10	Moderate Available water	0.50
Beje-----	20	Low		Moderate Available water	0.50
505: Moento-----	80	Low		Low	
506: Moento-----	35	Low		Low	
Detra-----	30	Low Texture/coarse fragments	0.10	Moderate Available water	0.50
Jemco-----	20	Low Texture/coarse fragments	0.10	Moderate Available water	0.50
508: Herm-----	50	Low Texture/coarse fragments	0.10	Moderate Available water	0.50
Pagoda-----	35	Low		Low	
509: Burnson, dry-----	80	Low		Moderate Available water	0.50
510: Jemco-----	60	Low Texture/coarse fragments	0.10	Moderate Available water	0.50
Moento-----	25	Low		Low	
511: Granath-----	50	Low		Low	

Table 12.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Potential for damage to soil by fire		Potential for seedling mortality	
		Rating class and limiting features	Value	Rating class and limiting features	Value
511: Fughes-----	35	Low Texture/coarse fragments	0.10	Low	
512: Wetherill-----	85	Moderate Texture/coarse fragments	0.50	Moderate Available water	0.50
513: Maudrey-----	50	Low		Moderate Available water	0.50
Tombac-----	35	Low		Moderate Available water	0.50
525: Arabrab-----	85	Low		Moderate Available water	0.50
526: Lonecone-----	80	Low Texture/coarse fragments	0.10	Moderate Available water	0.50
527: Ormiston-----	50	Low Texture/coarse fragments	0.10	Moderate Available water	0.50
Beje-----	35	Low		Low	
552: Burnson-----	80	Low		Moderate Available water	0.50
553: Burnson-----	50	Low		Low	
Herm-----	30	Low Texture/coarse fragments	0.10	Low	
571: Mancos-----	40	Low Texture/coarse fragments	0.10	Low	
Skisams-----	35	Low Texture/coarse fragments	0.10	Low	
Skutum-----	20	Low Texture/coarse fragments	0.10	Low	
572: Sudduth-----	85	Low		Low	

Table 12.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Potential for damage to soil by fire		Potential for seedling mortality	
		Rating class and limiting features	Value	Rating class and limiting features	Value
600: Valto-----	50	High Texture/slope/ surface depth/coarse fragments	1.00	Low	
Rock outcrop-----	35	Not rated		Not rated	
601: Weminuche-----	85	High Texture/slope/ surface depth/coarse fragments	1.00	Low	
602: Weminuche-----	85	Low		Low	
603: Weminuche-----	55	High Texture/slope/ surface depth/coarse fragments	1.00	Low	
Anvik-----	25	Low		Low	
605: Nordicol-----	80	Low		Low	
606: Snowdon-----	50	Moderate Texture/slope/ surface depth/coarse fragments	0.50	Low	
Needleton-----	35	Moderate Texture/coarse fragments	0.50	Low	
607: Graysill-----	45	Low Texture/coarse fragments	0.10	Low	
Scotch-----	35	Low		Low	
608: Scotch-----	45	Low		Low	
Graysill-----	35	Low Texture/coarse fragments	0.10	Low	

Table 12.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Potential for damage to soil by fire		Potential for seedling mortality	
		Rating class and limiting features	Value	Rating class and limiting features	Value
609: Hourglass-----	50	Low Texture/coarse fragments	0.10	Low	
Wander-----	35	Low		Low	
610: Wander-----	45	Low		Low	
Hotter-----	30	High Texture/slope/ surface depth/coarse fragments	1.00	Low	
Hourglass-----	15	Low Texture/coarse fragments	0.10	Low	
611: Goldbug-----	85	Low		Low	
612: Haviland-----	50	Low Texture/coarse fragments	0.10	Low	
Graysill-----	35	Low Texture/coarse fragments	0.10	Low	
615: Haviland-----	75	Low Texture/coarse fragments	0.10	Low	
616: Fortlewis-----	85	Low		Moderate Available water	0.50
617: Shawa-----	85	Low Texture/coarse fragments	0.10	Moderate Available water	0.50
618: Nordicol-----	50	Low		Low	
Valto-----	35	High Texture/slope/ surface depth/coarse fragments	1.00	Low	
619: Nordicol-----	80	Moderate Texture/coarse fragments	0.50	Low	

Table 12.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Potential for damage to soil by fire		Potential for seedling mortality	
		Rating class and limiting features	Value	Rating class and limiting features	Value
620: Caviness-----	90	Low Texture/coarse fragments	0.10	Low	
621: Granturk-----	85	Low		Low	
622: Granturk-----	60	High Texture/slope/ surface depth/coarse fragments	1.00	Low	
Rock outcrop-----	30	Not rated		Not rated	
623: Chris-----	50	Moderate Texture/coarse fragments	0.50	Low	
Nordicol-----	40	Low		Low	
699: Haplocryolls-----	40	Moderate Texture/slope/ coarse fragments	0.50	Low	
Rubble land-----	40	Not rated		Not rated	
700: Bradfield-----	90	Low		Moderate Available water	0.50
703: Narraguinnep-----	80	Low		Low	
704: Gladlow-----	30	Low		Moderate Soil reaction Available water	0.50 0.50
Rock outcrop-----	30	Not rated		Not rated	
Ruko-----	20	Low		Moderate Available water Soil reaction	0.50 0.50
705: Helmet-----	80	Low		Low	
706: Narraguinnep-----	85	Low		Moderate Available water	0.50

Table 12.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Potential for damage to soil by fire		Potential for seedling mortality	
		Rating class and limiting features	Value	Rating class and limiting features	Value
707: Teedown-----	50	Low Texture/coarse fragments	0.10	Low	
Nordicol-----	35	Low		Low	
708: Helmet-----	80	Low		Low	
709: Teedown-----	85	Low Texture/coarse fragments	0.10	Low	
710: Sili-----	50	Low		Moderate Available water	0.50
Zigzag-----	30	Low		High Available water Soil reaction	1.00 0.50
711: Sili-----	85	Low		Moderate Available water	0.50
714: Helmet-----	80	Low		Low	
718: Narraguinnep-----	50	Low		Low	
Gladlow-----	40	Low		Moderate Soil reaction	0.50
720: Zigzag-----	45	Low		Moderate Soil reaction	0.50
Rock outcrop-----	35	Not rated		Not rated	
723: Zigzag-----	50	Low		Moderate Soil reaction	0.50
Rock outcrop-----	40	Not rated		Not rated	
725: Shawa-----	85	Low Texture/coarse fragments	0.10	Low	
727: Teedown-----	50	Low Texture/coarse fragments	0.10	Low	
Nordicol-----	35	Low		Low	

Table 12.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Potential for damage to soil by fire		Potential for seedling mortality	
		Rating class and limiting features	Value	Rating class and limiting features	Value
730: Baird Hollow-----	35	Low Texture/coarse fragments	0.10	Low	
Nordicol-----	30	Low		Low	
Ryman-----	25	Low Texture/coarse fragments	0.10	Low	
731: Ryman-----	60	Low Texture/coarse fragments	0.10	Low	
Adel-----	30	Low Texture/coarse fragments	0.10	Low	
732: Adel-----	50	Low Texture/coarse fragments	0.10	Low	
Quazar-----	40	Low		Low	
733: Adel-----	70	Low Texture/coarse fragments	0.10	Low	
Bucklon-----	20	Low		Low	
734: Ryman-----	60	Low Texture/coarse fragments	0.10	Low	
Clayburn-----	30	Low Texture/coarse fragments	0.10	Low	
740: Cowtown-----	50	Low		Low	
Scout-----	30	Low		Low	
741: Cowtown-----	45	Moderate Texture/slope/ surface depth/coarse fragments	0.50	Low	
Scout-----	35	Moderate Texture/slope/ surface depth/coarse fragments	0.50	Low	

Table 12.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Potential for damage to soil by fire		Potential for seedling mortality	
		Rating class and limiting features	Value	Rating class and limiting features	Value
750: Archuleta-----	50	Low		Low	
Sheek-----	35	Moderate Texture/slope/ coarse fragments	0.50	Low	
801: Fughes-----	50	Low Texture/coarse fragments	0.10	Low	
Sheek-----	35	Low		Low	
802: Argiustolls-----	30	High Texture/slope/ surface depth/coarse fragments	1.00	Moderate Available water	0.50
Haplustalfs-----	30	High Texture/slope/ surface depth/coarse fragments	1.00	Low	
Rock outcrop-----	25	Not rated		Not rated	
804: Wauquie-----	40	High Texture/slope/ surface depth/coarse fragments	1.00	Low	
Dolcan-----	25	Low		Moderate Soil reaction	0.50
Rock outcrop-----	20	Not rated		Not rated	
805: Shawa-----	50	Low Texture/coarse fragments	0.10	Low	
Fughes-----	40	Low Texture/coarse fragments	0.10	Low	
806: Shawa-----	45	Low		Low	
Fughes-----	35	Low		Low	

Table 12.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Potential for damage to soil by fire		Potential for seedling mortality	
		Rating class and limiting features	Value	Rating class and limiting features	Value
809: Argiustolls-----	45	High Texture/slope/ surface depth/coarse fragments	1.00	Moderate Available water	0.50
Haplustalfs-----	40	High Texture/slope/ surface depth/coarse fragments	1.00	Low	
813: Fughes-----	80	Low Texture/coarse fragments	0.10	Low	
814: Leaps-----	50	Low		Low	
Hofly-----	35	Low Texture/coarse fragments	0.10	Low	
815: Behanco-----	45	Low		Low	
Powderhorn family---	40	Low		Low	
816: Storm-----	85	High Texture/slope/ coarse fragments Texture/surface depth/coarse fragments	1.00 1.00	Low	
826: Ute-----	50	Low Texture/coarse fragments	0.10	High Wetness	1.00
Frisco-----	40	Low		Low	
830: Dressel-----	55	Low		Low	
Jersey-----	30	Moderate Texture/slope/ coarse fragments	0.50	Low	
832: Storm-----	85	High Texture/slope/ coarse fragments Texture/surface depth/coarse fragments	1.00 1.00	Low	

Table 12.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Potential for damage to soil by fire		Potential for seedling mortality	
		Rating class and limiting features	Value	Rating class and limiting features	Value
834: Haycamp-----	60	Low		Low	
Jersey-----	25	Moderate Texture/slope/ coarse fragments	0.50	Low	
835: Brumley-----	85	Low		Moderate Available water	0.50
860: Granath-----	55	Low		Low	
Nortez-----	30	Low		Moderate Available water	0.50
861: Morapos-----	80	Low		Moderate Available water	0.50
862: Granath-----	40	Low		Low	
Dolores-----	25	Low		High Available water	1.00
Fivepine-----	20	Low		High Available water	1.00
863: Granath-----	40	Low		Low	
Ormiston-----	25	Low Texture/coarse fragments	0.10	Moderate Available water	0.50
Fivepine-----	20	Low		High Available water	1.00
890: Tamarron-----	45	Low		Low	
Frisco-----	35	High Texture/slope/ surface depth/coarse fragments	1.00	Low	
891: Tamarron-----	45	Moderate Texture/coarse fragments	0.50	Low	
Frisco-----	40	Low		Low	
901: Granath-----	45	Low		Low	

Table 12.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Potential for damage to soil by fire		Potential for seedling mortality	
		Rating class and limiting features	Value	Rating class and limiting features	Value
901: Zoltay-----	25	Low		Moderate Available water	0.50
Nortez-----	20	Low		Moderate Available water	0.50
903: Anvik-----	85	Low Texture/coarse fragments	0.10	Low	
904: Beje-----	85	Low Texture/coarse fragments	0.10	Moderate Available water	0.50
905: Cryaquolls-----	95	Low Texture/coarse fragments	0.10	High Wetness	1.00
906: Archuleta-----	80	High Texture/slope/sur face depth/coarse fragments	1.00	Low	
907: Archuleta-----	45	High Texture/slope/sur face depth/coarse fragments	1.00	Low	
Sanchez-----	30	Low		Low	
908: Adel-----	85	Low Texture/coarse fragments	0.10	Low	
909: Adel-----	90	Low Texture/coarse fragments	0.10	Low	
917: Chris-----	85	Low		Low	
919: Clayburn-----	90	Low Texture/coarse fragments	0.10	Low	
920: Clayburn-----	85	Low Texture/coarse fragments	0.10	Low	

Table 12.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Potential for damage to soil by fire		Potential for seedling mortality	
		Rating class and limiting features	Value	Rating class and limiting features	Value
926: Ustolls-----	45	Low Texture/coarse fragments	0.10	Low	
Rock outcrop-----	40	Not rated		Not rated	
930: Fortlewis-----	45	Low		Low	
Rock outcrop-----	35	Not rated		Not rated	
934: Ceek-----	85	Low		Low	
937: Herm-----	85	Low Texture/coarse fragments	0.10	Low	
939: Ohwiler-----	90	Low Texture/coarse fragments	0.10	Low	
940: Horsethief-----	85	High Texture/slope/ surface depth/coarse fragments	1.00	Low	
942: Fivepine-----	50	Low		High Available water	1.00
Pino-----	35	Low		Moderate Available water	0.50
945: Nizhoni-----	35	Low		Moderate Soil reaction	0.50
Arabrab-----	30	Low		Moderate Available water	0.50
Rock outcrop-----	30	Not rated		Not rated	
950: Pescar-----	80	Moderate Texture/coarse fragments	0.50	Moderate Available water	0.50
				Wetness	0.50
951: Endoaquolls-----	90	Low		High Wetness	1.00

Table 12.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Potential for damage to soil by fire		Potential for seedling mortality	
		Rating class and limiting features	Value	Rating class and limiting features	Value
955: Umbarg-----	35	Low		Moderate Available water	0.50
Winner-----	30	Low		Moderate Wetness Soil reaction	0.50 0.50
Tesajo-----	20	Low		High Available water	1.00
956: Ormiston-----	50	Low		High Available water	1.00
Granath-----	35	Low		Low	
958: Sheek-----	35	Low		Low	
Archuleta-----	30	High Texture/slope/ coarse fragments	1.00	Low	
Rock outcrop-----	20	Not rated		Not rated	
959: Granath-----	90	Low		Low	
965: Narraguinnep-----	55	Low		Moderate Available water	0.50
Dapoin-----	30	Low		Low	
966: Cryaquepts-----	85	Low Texture/coarse fragments	0.10	High Wetness	1.00
967: Quazar-----	40	Low		Low	
Cryaquolls-----	25	Low Texture/coarse fragments	0.10	High Wetness	1.00
Cryohemists-----	20	Low Texture/coarse fragments	0.10	High Wetness	1.00
968: Nortez-----	50	Low		Moderate Available water	0.50
Granath-----	35	Low		Low	
969: Nortez-----	45	Low		Moderate Available water	0.50

Table 12.--Forestland management--Continued

Map symbol and soil name	Pct. of map unit	Potential for damage to soil by fire		Potential for seedling mortality	
		Rating class and limiting features	Value	Rating class and limiting features	Value
969: Fivepine-----	40	Low		High Available water	1.00
972: Pagoda-----	35	Low		Low	
Coulterg-----	30	Low		Moderate Soil reaction	0.50
Wiggler-----	20	High Texture/slope/ surface depth/coarse fragments	1.00	Moderate Soil reaction	0.50
989: Ryman-----	90	Low Texture/coarse fragments	0.10	Low	
990: Ryman, warm-----	85	Low		Low	
992: Gladlow-----	85	Low		Moderate Soil reaction Available water	0.50 0.50
996: Zoltay-----	85	Low Texture/coarse fragments	0.10	Moderate Available water	0.50
997: Zigzag-----	40	Low		Moderate Soil reaction	0.50
Bodot-----	25	Low		Moderate Soil reaction Salinity	0.50 0.50
Rock outcrop-----	25	Not rated		Not rated	

Table 13.--Recreation

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the limitation. See text for further explanation of ratings in this table.)

Map symbol and soil name	Pct. of map unit	Camp areas		Picnic areas		Playgrounds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
1: Bradfield-----	45	Somewhat limited Restricted permeability	0.41	Somewhat limited Restricted permeability	0.41	Somewhat limited Restricted permeability Slope	0.41 0.12
Narraguinnep-----	40	Somewhat limited Restricted permeability	0.41	Somewhat limited Restricted permeability	0.41	Somewhat limited Restricted permeability Slope	0.41 0.12
2: Hesperus-----	85	Not limited		Not limited		Not limited	
10: Lillings-----	85	Very limited Flooding	1.00	Not limited		Somewhat limited Slope	0.12
12: Shawa-----	80	Not limited		Not limited		Somewhat limited Slope	0.12
13: Fughes-----	85	Somewhat limited Restricted permeability	0.41	Somewhat limited Restricted permeability	0.41	Very limited Slope Restricted permeability Content of large stones	1.00 0.41 0.01
14: Dalmatian-----	35	Very limited Flooding	1.00	Not limited		Somewhat limited Slope	0.12
Apmay-----	35	Very limited Flooding Depth to saturated zone	1.00 0.39	Somewhat limited Depth to saturated zone	0.19	Somewhat limited Depth to saturated zone Slope	0.39 0.12

Table 13.--Recreation--Continued

Map symbol and soil name	Pct. of map unit	Camp areas		Picnic areas		Playgrounds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
14: Schrader-----	15	Very limited Flooding Depth to saturated zone	1.00 0.98	Somewhat limited Depth to saturated zone	0.75	Somewhat limited Depth to saturated zone Flooding Slope	0.98 0.60 0.12
15: Umbarg-----	80	Very limited Flooding	1.00	Not limited		Somewhat limited Slope	0.12
16: Payter-----	85	Somewhat limited Slope	0.04	Somewhat limited Slope	0.04	Very limited Slope	1.00
17: Fluvaquents-----	55	Very limited Flooding Too sandy Depth to saturated zone	1.00 1.00 0.98	Very limited Too sandy Depth to saturated zone Flooding	1.00 0.75 0.40	Very limited Flooding Too sandy Depth to saturated zone Gravel content Slope	1.00 1.00 0.98 0.74 0.12
Haplustolls-----	30	Very limited Flooding	1.00	Not limited		Somewhat limited Slope Gravel content	0.12 0.04
18: Endoaquolls-----	45	Very limited Depth to saturated zone Flooding	1.00 1.00	Very limited Depth to saturated zone Flooding	1.00 0.40	Very limited Depth to saturated zone Flooding Slope Content of large stones	1.00 1.00 0.12 0.01
Ustifluvents-----	40	Very limited Flooding	1.00	Not limited		Somewhat limited Flooding Slope Content of large stones	0.60 0.12 0.01

Table 13.--Recreation--Continued

Map symbol and soil name	Pct. of map unit	Camp areas		Picnic areas		Playgrounds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
20: Mavreeso-----	75	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope Content of large stones	1.00 0.01
51: Clayburn-----	55	Very limited Slope Restricted permeability	1.00 0.21	Very limited Slope Restricted permeability	1.00 0.21	Very limited Slope Restricted permeability Gravel content	1.00 0.21 0.04
Hourglass-----	35	Very limited Slope Restricted permeability	1.00 0.21	Very limited Slope Restricted permeability	1.00 0.21	Very limited Slope Restricted permeability	1.00 0.21
52: Ohwiler-----	80	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
53: Cryaquolls-----	50	Very limited Depth to saturated zone Flooding	1.00 1.00	Somewhat limited Depth to saturated zone	0.99	Very limited Depth to saturated zone Flooding Slope Content of large stones	1.00 0.60 0.12 0.01
Typic Cryaquents----	35	Very limited Depth to saturated zone Flooding	1.00 1.00	Somewhat limited Depth to saturated zone	0.99	Very limited Depth to saturated zone Flooding Slope	1.00 0.60 0.12

Table 13.--Recreation--Continued

Map symbol and soil name	Pct. of map unit	Camp areas		Picnic areas		Playgrounds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
54: Quazar-----	90	Very limited Too stony Content of large stones Slope	1.00 0.61 0.16	Very limited Too stony Content of large stones Slope	1.00 0.61 0.16	Very limited Too stony Slope Content of large stones Gravel content	1.00 1.00 1.00 0.52
56: Typic Cryaquents----	35	Very limited Depth to saturated zone Flooding	1.00 1.00	Somewhat limited Depth to saturated zone	0.99	Very limited Depth to saturated zone Flooding Slope	1.00 0.60 0.12
Cryaquolls-----	30	Very limited Depth to saturated zone Flooding	1.00 1.00	Somewhat limited Depth to saturated zone	0.99	Very limited Depth to saturated zone Flooding Slope Gravel content Content of large stones	1.00 0.60 0.12 0.05 0.01
Cryofibrists-----	25	Very limited Flooding Depth to saturated zone	1.00 0.98	Somewhat limited Depth to saturated zone Flooding	0.75 0.40	Very limited Flooding Depth to saturated zone Slope	1.00 0.98 0.12
57: Howardsville-----	80	Somewhat limited Gravel content	0.09	Somewhat limited Gravel content	0.09	Very limited Gravel content Slope Content of large stones	1.00 0.50 0.20
58: Fughes-----	55	Very limited Slope Restricted permeability	1.00 0.41	Very limited Slope Restricted permeability	1.00 0.41	Very limited Slope Restricted permeability	1.00 0.41

Table 13.--Recreation--Continued

Map symbol and soil name	Pct. of map unit	Camp areas		Picnic areas		Playgrounds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
58: Herm-----	35	Very limited Slope Restricted permeability	1.00 0.41	Very limited Slope Restricted permeability	1.00 0.41	Very limited Slope Restricted permeability	1.00 0.41
59: Fughes-----	45	Very limited Slope Too stony Restricted permeability	1.00 0.76 0.41	Very limited Slope Too stony Restricted permeability	1.00 0.76 0.41	Very limited Slope Content of large stones Too stony Gravel content Restricted permeability	1.00 0.92 0.76 0.42 0.41
Herm-----	35	Very limited Slope Restricted permeability Content of large stones	1.00 0.41 0.08	Very limited Slope Restricted permeability Content of large stones	1.00 0.41 0.08	Very limited Slope Content of large stones Restricted permeability Gravel content	1.00 1.00 0.41 0.02
60: Grimes-----	90	Somewhat limited Content of large stones	0.42	Somewhat limited Content of large stones	0.42	Very limited Content of large stones Gravel content	1.00 0.73
110: Sheek-----	45	Very limited Slope Too stony Content of large stones	1.00 0.76 0.32	Very limited Slope Too stony Content of large stones	1.00 0.76 0.32	Very limited Slope Content of large stones Gravel content Too stony	1.00 1.00 0.99 0.76

Table 13.--Recreation--Continued

Map symbol and soil name	Pct. of map unit	Camp areas		Picnic areas		Playgrounds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
110: Ormiston-----	35	Somewhat limited Restricted permeability	0.41	Somewhat limited Restricted permeability	0.41	Very limited Slope Restricted permeability Content of large stones	1.00 0.41 0.03
111: Fardraw-----	80	Somewhat limited Restricted permeability Slope	0.41 0.04	Somewhat limited Restricted permeability Slope	0.41 0.04	Very limited Slope Restricted permeability Content of large stones	1.00 0.41 0.08
113: Dolores-----	80	Very limited Slope Restricted permeability	1.00 0.41	Very limited Slope Restricted permeability	1.00 0.41	Very limited Slope Restricted permeability	1.00 0.41
150: Silex-----	70	Very limited Depth to bedrock Slope Restricted permeability	1.00 1.00 0.21	Very limited Depth to bedrock Slope Restricted permeability	1.00 1.00 0.21	Very limited Slope Depth to bedrock Restricted permeability	1.00 1.00 0.21
Rock outcrop-----	20	Not rated		Not rated		Not rated	
151: Frisco-----	80	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
152: Frisco-----	80	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
153: Frisco-----	50	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00

Table 13.--Recreation--Continued

Map symbol and soil name	Pct. of map unit	Camp areas		Picnic areas		Playgrounds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
153: Horsethief-----	30	Very limited Slope Restricted permeability	1.00 0.21	Very limited Slope Restricted permeability	1.00 0.21	Very limited Slope Restricted permeability	1.00 0.21
154: Frisco-----	60	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
Horsethief-----	25	Very limited Slope Too stony Restricted permeability	1.00 0.76 0.21	Very limited Slope Too stony Restricted permeability	1.00 0.76 0.21	Very limited Slope Too stony Restricted permeability	1.00 0.76 0.21
155: Tuckerville-----	70	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
Rock outcrop-----	20	Not rated		Not rated		Not rated	
156: Sponsor-----	60	Very limited Slope Restricted permeability	1.00 0.21	Very limited Slope Restricted permeability	1.00 0.21	Very limited Slope Restricted permeability	1.00 0.21
Tuckerville-----	30	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
157: Sponsor-----	60	Very limited Slope Too stony Restricted permeability	1.00 0.76 0.21	Very limited Slope Too stony Restricted permeability	1.00 0.76 0.21	Very limited Slope Too stony Restricted permeability	1.00 0.76 0.21
Tuckerville-----	30	Very limited Slope Too stony	1.00 0.76	Very limited Slope Too stony	1.00 0.76	Very limited Slope Too stony	1.00 0.76

Table 13.--Recreation--Continued

Map symbol and soil name	Pct. of map unit	Camp areas		Picnic areas		Playgrounds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
158: Sponsor-----	60	Very limited Slope Restricted permeability	1.00 0.21	Very limited Slope Restricted permeability	1.00 0.21	Very limited Slope Restricted permeability	1.00 0.21
Tuckerville-----	30	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
159: Tuckerville-----	80	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
160: Anvik-----	40	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
Tuckerville-----	35	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
161: Needleton-----	85	Somewhat limited Restricted permeability Slope	0.21 0.16	Somewhat limited Restricted permeability Slope	0.21 0.16	Very limited Slope Restricted permeability	1.00 0.21
162: Quazar-----	45	Very limited Slope Too stony Content of large stones	1.00 1.00 0.61	Very limited Slope Too stony Content of large stones	1.00 1.00 0.61	Very limited Slope Too stony Content of large stones Gravel content	1.00 1.00 1.00 0.52
Varden-----	40	Very limited Slope Too stony Content of large stones	1.00 1.00 0.61	Very limited Slope Too stony Content of large stones	1.00 1.00 0.61	Very limited Slope Too stony Content of large stones Gravel content	1.00 1.00 1.00 0.52

Table 13.--Recreation--Continued

Map symbol and soil name	Pct. of map unit	Camp areas		Picnic areas		Playgrounds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
163: Clayburn-----	50	Very limited Slope Restricted permeability	1.00 0.21	Very limited Slope Restricted permeability	1.00 0.21	Very limited Slope Restricted permeability Gravel content	1.00 0.21 0.04
Hourglass-----	35	Very limited Slope Restricted permeability	1.00 0.21	Very limited Slope Restricted permeability	1.00 0.21	Very limited Slope Restricted permeability	1.00 0.21
164: Hourglass-----	50	Very limited Slope Restricted permeability	1.00 0.21	Very limited Slope Restricted permeability	1.00 0.21	Very limited Slope Restricted permeability	1.00 0.21
Bucklon-----	25	Very limited Slope Depth to bedrock	1.00 1.00	Very limited Slope Depth to bedrock	1.00 1.00	Very limited Slope Depth to bedrock	1.00 1.00
Wander-----	15	Very limited Slope Content of large stones Restricted permeability	1.00 0.61 0.15	Very limited Slope Content of large stones Restricted permeability	1.00 0.61 0.15	Very limited Slope Content of large stones Gravel content Restricted permeability	1.00 1.00 0.52 0.15
165: Pinacol-----	85	Somewhat limited Restricted permeability	0.41	Somewhat limited Restricted permeability	0.41	Very limited Slope Restricted permeability	1.00 0.41
166: Pinacol-----	80	Very limited Slope Restricted permeability	1.00 0.41	Very limited Slope Restricted permeability	1.00 0.41	Very limited Slope Restricted permeability	1.00 0.41

Table 13.--Recreation--Continued

Map symbol and soil name	Pct. of map unit	Camp areas		Picnic areas		Playgrounds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
250: Snowdon-----	55	Very limited Slope Too stony	1.00 1.00	Very limited Slope Too stony	1.00 1.00	Very limited Slope Too stony Depth to bedrock	1.00 1.00 0.99
Rock outcrop-----	25	Not rated		Not rated		Not rated	
251: Rock outcrop-----	60	Not rated		Not rated		Not rated	
Snowdon-----	25	Very limited Slope Too stony	1.00 1.00	Very limited Slope Too stony	1.00 1.00	Very limited Slope Too stony Depth to bedrock	1.00 1.00 0.99
254: Typic Cryorthents---	50	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope Content of large stones	1.00 1.00	Very limited Content of large stones Slope	1.00 1.00
Rubble land-----	30	Not rated		Not rated		Not rated	
330: Needleton-----	85	Very limited Slope Restricted permeability	1.00 0.21	Very limited Slope Restricted permeability	1.00 0.21	Very limited Slope Restricted permeability	1.00 0.21
331: Needleton-----	80	Very limited Slope Restricted permeability	1.00 0.21	Very limited Slope Restricted permeability	1.00 0.21	Very limited Slope Restricted permeability	1.00 0.21
332: Horsethief-----	55	Very limited Slope Too stony Restricted permeability	1.00 0.76 0.21	Very limited Slope Too stony Restricted permeability	1.00 0.76 0.21	Very limited Slope Too stony Restricted permeability	1.00 0.76 0.21

Table 13.--Recreation--Continued

Map symbol and soil name	Pct. of map unit	Camp areas		Picnic areas		Playgrounds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
332: Needleton-----	35	Very limited Slope Too stony Restricted permeability	1.00 0.76 0.21	Very limited Slope Too stony Restricted permeability	1.00 0.76 0.21	Very limited Slope Too stony Restricted permeability	1.00 0.76 0.21
333: Henson, south aspect	85	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
334: Henson, south aspect	80	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
335: Whitecross-----	55	Very limited Slope Depth to bedrock	1.00 1.00	Very limited Slope Depth to bedrock	1.00 1.00	Very limited Slope Depth to bedrock	1.00 1.00
Rock outcrop-----	30	Not rated		Not rated		Not rated	
336: Whitecross, south aspect-----	50	Very limited Slope Depth to bedrock Too stony	1.00 1.00 1.00	Very limited Slope Depth to bedrock Too stony	1.00 1.00 1.00	Very limited Slope Depth to bedrock Too stony	1.00 1.00 1.00
Rock outcrop-----	25	Not rated		Not rated		Not rated	
337: Whitecross-----	60	Very limited Slope Depth to bedrock Too stony	1.00 1.00 1.00	Very limited Slope Depth to bedrock Too stony	1.00 1.00 1.00	Very limited Slope Depth to bedrock Too stony	1.00 1.00 1.00
Rock outcrop-----	25	Not rated		Not rated		Not rated	
338: Henson-----	80	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00

Table 13.--Recreation--Continued

Map symbol and soil name	Pct. of map unit	Camp areas		Picnic areas		Playgrounds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
339: Henson-----	80	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
340: Moran-----	80	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
341: Moran-----	80	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
342: Telluride-----	60	Very limited Slope Depth to bedrock	1.00 1.00	Very limited Slope Depth to bedrock	1.00 1.00	Very limited Slope Depth to bedrock	1.00 1.00
Rock outcrop-----	20	Not rated		Not rated		Not rated	
343: Telluride-----	60	Very limited Slope Depth to bedrock	1.00 1.00	Very limited Slope Depth to bedrock	1.00 1.00	Very limited Slope Depth to bedrock	1.00 1.00
Rock outcrop-----	25	Not rated		Not rated		Not rated	
345: Papaspila-----	85	Somewhat limited Restricted permeability	0.21	Somewhat limited Restricted permeability	0.21	Very limited Slope Restricted permeability Content of large stones	1.00 0.21 0.01
350: Flygare-----	45	Somewhat limited Restricted permeability	0.21	Somewhat limited Restricted permeability	0.21	Very limited Slope Restricted permeability	1.00 0.21
Foidel-----	40	Not limited		Not limited		Very limited Slope	1.00

Table 13.--Recreation--Continued

Map symbol and soil name	Pct. of map unit	Camp areas		Picnic areas		Playgrounds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
355: Flygare-----	45	Very limited Slope Restricted permeability	1.00 0.21	Very limited Slope Restricted permeability	1.00 0.21	Very limited Slope Restricted permeability	1.00 0.21
Foidel-----	40	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
360: Blacksnag-----	45	Somewhat limited Content of large stones Restricted permeability Slope	0.42 0.21 0.04	Somewhat limited Content of large stones Restricted permeability Slope	0.42 0.21 0.04	Very limited Content of large stones Slope Gravel content Restricted permeability	1.00 1.00 0.98 0.21
Peeler-----	40	Somewhat limited Slope	0.04	Somewhat limited Slope	0.04	Very limited Slope	1.00
361: Blacksnag-----	45	Very limited Slope Content of large stones Restricted permeability	1.00 0.42 0.21	Very limited Slope Content of large stones Restricted permeability	1.00 0.42 0.21	Very limited Slope Content of large stones Gravel content Restricted permeability	1.00 1.00 0.98 0.21
Peeler-----	40	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
374: Mavreeso-----	35	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope Content of large stones	1.00 0.01
Valto-----	30	Very limited Slope Depth to bedrock	1.00 1.00	Very limited Slope Depth to bedrock	1.00 1.00	Very limited Slope Depth to bedrock	1.00 1.00

Table 13.--Recreation--Continued

Map symbol and soil name	Pct. of map unit	Camp areas		Picnic areas		Playgrounds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
374: Rock outcrop-----	20	Not rated		Not rated		Not rated	
375: Needleton-----	55	Somewhat limited Restricted permeability Slope	0.21 0.16	Somewhat limited Restricted permeability Slope	0.21 0.16	Very limited Slope Restricted permeability	1.00 0.21
Snowdon-----	30	Somewhat limited Slope	0.16	Somewhat limited Slope	0.16	Very limited Slope Depth to bedrock	1.00 0.99
376: Needleton-----	80	Very limited Slope Restricted permeability	1.00 0.21	Very limited Slope Restricted permeability	1.00 0.21	Very limited Slope Restricted permeability	1.00 0.21
378: Needleton-----	65	Very limited Slope Restricted permeability	1.00 0.21	Very limited Slope Restricted permeability	1.00 0.21	Very limited Slope Restricted permeability	1.00 0.21
Haviland-----	25	Very limited Slope Restricted permeability	1.00 0.21	Very limited Slope Restricted permeability	1.00 0.21	Very limited Slope Restricted permeability	1.00 0.21
380: Snowdon-----	50	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope Depth to bedrock	1.00 0.99
Rock outcrop-----	35	Not rated		Not rated		Not rated	
381: Needleton-----	45	Very limited Slope Restricted permeability	1.00 0.21	Very limited Slope Restricted permeability	1.00 0.21	Very limited Slope Restricted permeability	1.00 0.21

Table 13.--Recreation--Continued

Map symbol and soil name	Pct. of map unit	Camp areas		Picnic areas		Playgrounds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
381: Snowdon-----	30	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope Depth to bedrock	1.00 0.99
Rock outcrop-----	15	Not rated		Not rated		Not rated	
382: Needleton-----	50	Very limited Slope Restricted permeability	1.00 0.21	Very limited Slope Restricted permeability	1.00 0.21	Very limited Slope Restricted permeability	1.00 0.21
Snowdon-----	30	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope Depth to bedrock	1.00 0.99
383: Haviland-----	50	Very limited Slope Restricted permeability	1.00 0.21	Very limited Slope Restricted permeability	1.00 0.21	Very limited Slope Restricted permeability	1.00 0.21
Needleton-----	35	Very limited Slope Restricted permeability	1.00 0.21	Very limited Slope Restricted permeability	1.00 0.21	Very limited Slope Restricted permeability	1.00 0.21
386: Needleton-----	70	Very limited Slope Too stony Restricted permeability	1.00 0.76 0.21	Very limited Slope Too stony Restricted permeability	1.00 0.76 0.21	Very limited Slope Too stony Restricted permeability	1.00 0.76 0.21
387: Frisco-----	50	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00

Table 13.--Recreation--Continued

Map symbol and soil name	Pct. of map unit	Camp areas		Picnic areas		Playgrounds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
387: Quazar-----	40	Very limited Slope Content of large stones	1.00 0.61	Very limited Slope Content of large stones	1.00 0.61	Very limited Slope Content of large stones Gravel content	1.00 1.00 0.52
388: Frisco-----	50	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
Quazar-----	45	Very limited Slope Content of large stones	1.00 0.61	Very limited Slope Content of large stones	1.00 0.61	Very limited Slope Content of large stones Gravel content	1.00 1.00 0.52
389: Seitz-----	85	Very limited Slope Restricted permeability	1.00 0.96	Very limited Slope Restricted permeability	1.00 0.96	Very limited Slope Restricted permeability	1.00 0.96
390: Clayburn-----	40	Very limited Slope Restricted permeability	1.00 0.21	Very limited Slope Restricted permeability	1.00 0.21	Very limited Slope Restricted permeability Gravel content	1.00 0.21 0.04
Heisspitz-----	30	Very limited Slope Depth to bedrock	1.00 1.00	Very limited Slope Depth to bedrock	1.00 1.00	Very limited Slope Depth to bedrock Content of large stones	1.00 1.00 0.01

Table 13.--Recreation--Continued

Map symbol and soil name	Pct. of map unit	Camp areas		Picnic areas		Playgrounds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
391: Runlett-----	50	Very limited Slope Restricted permeability	1.00 0.96	Very limited Slope Restricted permeability	1.00 0.96	Very limited Slope Restricted permeability Depth to bedrock Content of large stones	1.00 0.96 0.71 0.01
Sessions-----	30	Very limited Slope Restricted permeability	1.00 0.96	Very limited Slope Restricted permeability	1.00 0.96	Very limited Slope Restricted permeability	1.00 0.96
392: Runlett-----	30	Very limited Slope Restricted permeability	1.00 0.96	Very limited Slope Restricted permeability	1.00 0.96	Very limited Slope Restricted permeability Depth to bedrock Content of large stones	1.00 0.96 0.74 0.01
Needleton-----	30	Very limited Slope Restricted permeability	1.00 0.21	Very limited Slope Restricted permeability	1.00 0.21	Very limited Slope Restricted permeability	1.00 0.21
Sessions-----	20	Very limited Slope Restricted permeability	1.00 0.96	Very limited Slope Restricted permeability	1.00 0.96	Very limited Slope Restricted permeability	1.00 0.96
393: Heisspitz-----	50	Very limited Depth to bedrock Slope	1.00 0.16	Very limited Depth to bedrock Slope	1.00 0.16	Very limited Depth to bedrock Slope Content of large stones	1.00 1.00 0.01

Table 13.--Recreation--Continued

Map symbol and soil name	Pct. of map unit	Camp areas		Picnic areas		Playgrounds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
393: Sessions-----	25	Somewhat limited Restricted permeability Slope	0.96 0.16	Somewhat limited Restricted permeability Slope	0.96 0.16	Very limited Slope Restricted permeability	1.00 0.96
Rock outcrop-----	20	Not rated		Not rated		Not rated	
394: Clayburn-----	55	Very limited Slope Restricted permeability	1.00 0.21	Very limited Slope Restricted permeability	1.00 0.21	Very limited Slope Restricted permeability Gravel content	1.00 0.21 0.04
Heisspitz-----	30	Very limited Slope Depth to bedrock	1.00 1.00	Very limited Slope Depth to bedrock	1.00 1.00	Very limited Slope Depth to bedrock Content of large stones	1.00 1.00 0.01
395: Scout-----	85	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
396: Scout-----	85	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
399: Kite-----	40	Very limited Slope Depth to bedrock	1.00 1.00	Very limited Slope Depth to bedrock	1.00 1.00	Very limited Slope Depth to bedrock	1.00 1.00
Rock outcrop-----	35	Not rated		Not rated		Not rated	
450: Lostlake-----	45	Very limited Slope Depth to bedrock	1.00 1.00	Very limited Slope Depth to bedrock	1.00 1.00	Very limited Slope Depth to bedrock	1.00 1.00
Rock outcrop-----	35	Not rated		Not rated		Not rated	

Table 13.--Recreation--Continued

Map symbol and soil name	Pct. of map unit	Camp areas		Picnic areas		Playgrounds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
452: Dystrocryepts-----	55	Very limited Slope Depth to bedrock Gravel content	1.00 1.00 0.20	Very limited Slope Depth to bedrock Gravel content	1.00 1.00 0.20	Very limited Slope Depth to bedrock Gravel content Content of large stones	1.00 1.00 1.00 0.01
Rock outcrop-----	35	Not rated		Not rated		Not rated	
453: Sig-----	40	Very limited Slope Depth to bedrock Too stony	1.00 1.00 0.76	Very limited Slope Depth to bedrock Too stony	1.00 1.00 0.76	Very limited Slope Depth to bedrock Too stony	1.00 1.00 0.76
Rock outcrop-----	30	Not rated		Not rated		Not rated	
Snowdon-----	20	Very limited Slope Too stony	1.00 0.76	Very limited Slope Too stony	1.00 0.76	Very limited Slope Depth to bedrock Too stony	1.00 0.99 0.76
454: Snowdon-----	35	Very limited Slope Too stony	1.00 0.76	Very limited Slope Too stony	1.00 0.76	Very limited Slope Depth to bedrock Too stony	1.00 0.99 0.76
Sig-----	30	Very limited Slope Depth to bedrock Too stony	1.00 1.00 0.76	Very limited Slope Depth to bedrock Too stony	1.00 1.00 0.76	Very limited Slope Depth to bedrock Too stony	1.00 1.00 0.76
Rock outcrop-----	25	Not rated		Not rated		Not rated	
493: Badland-----	90	Not rated		Not rated		Not rated	
494: Pits, gravel-----	100	Not rated		Not rated		Not rated	

Table 13.--Recreation--Continued

Map symbol and soil name	Pct. of map unit	Camp areas		Picnic areas		Playgrounds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
495: Riverwash-----	85	Not rated		Not rated		Not rated	
496: Rock outcrop-----	70	Not rated		Not rated		Not rated	
497: Rubble land-----	80	Not rated		Not rated		Not rated	
498: Slickens-----	80	Not rated		Not rated		Not rated	
499: Water-----	100	Not rated		Not rated		Not rated	
500: Dolores-----	50	Somewhat limited Too stony Restricted permeability	0.76 0.41	Somewhat limited Too stony Restricted permeability	0.76 0.41	Very limited Slope Too stony Restricted permeability	1.00 0.76 0.41
Fivepine-----	35	Very limited Depth to bedrock Too stony Restricted permeability Content of large stones	1.00 0.76 0.41 0.08	Very limited Depth to bedrock Too stony Restricted permeability Content of large stones	1.00 0.76 0.41 0.08	Very limited Depth to bedrock Content of large stones Slope Too stony Restricted permeability	1.00 1.00 1.00 1.00 0.76 0.41
501: Fivepine-----	60	Very limited Depth to bedrock Too stony Restricted permeability Content of large stones	1.00 0.76 0.41 0.08	Very limited Depth to bedrock Too stony Restricted permeability Content of large stones	1.00 0.76 0.41 0.08	Very limited Depth to bedrock Content of large stones Slope Too stony Restricted permeability	1.00 1.00 1.00 1.00 0.76 0.41

Table 13.--Recreation--Continued

Map symbol and soil name	Pct. of map unit	Camp areas		Picnic areas		Playgrounds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
501: Nortez-----	25	Somewhat limited Restricted permeability	0.41	Somewhat limited Restricted permeability	0.41	Very limited Slope Restricted permeability Depth to bedrock	1.00 0.41 0.29
503: Ormiston-----	50	Somewhat limited Too stony Restricted permeability	0.76 0.41	Somewhat limited Too stony Restricted permeability	0.76 0.41	Very limited Slope Too stony Restricted permeability Content of large stones	1.00 0.76 0.41 0.03
Fivepine-----	35	Very limited Depth to bedrock Too stony Restricted permeability Content of large stones	1.00 0.76 0.41 0.08	Very limited Depth to bedrock Too stony Restricted permeability Content of large stones	1.00 0.76 0.41 0.08	Very limited Depth to bedrock Content of large stones Slope Too stony Restricted permeability	1.00 1.00 1.00 1.00 0.76 0.41
504: Jemco-----	40	Not limited		Not limited		Very limited Slope Depth to bedrock	1.00 0.01
Detra-----	30	Not limited		Not limited		Very limited Slope	1.00
Beje-----	20	Very limited Depth to bedrock	1.00	Very limited Depth to bedrock	1.00	Very limited Depth to bedrock Slope Content of large stones	1.00 1.00 0.01
505: Moento-----	80	Not limited		Not limited		Very limited Slope Depth to bedrock	1.00 0.06

Table 13.--Recreation--Continued

Map symbol and soil name	Pct. of map unit	Camp areas		Picnic areas		Playgrounds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
506: Moento-----	35	Not limited		Not limited		Very limited Slope Depth to bedrock	1.00 0.06
Detra-----	30	Somewhat limited Slope	0.04	Somewhat limited Slope	0.04	Very limited Slope	1.00
Jemco-----	20	Not limited		Not limited		Very limited Slope Depth to bedrock	1.00 0.01
508: Herm-----	50	Somewhat limited Restricted permeability	0.41	Somewhat limited Restricted permeability	0.41	Very limited Slope Restricted permeability	1.00 0.41
Pagoda-----	35	Somewhat limited Restricted permeability	0.41	Somewhat limited Restricted permeability	0.41	Very limited Slope Restricted permeability	1.00 0.41
509: Burnson, dry-----	80	Somewhat limited Restricted permeability	0.41	Somewhat limited Restricted permeability	0.41	Very limited Slope Restricted permeability	1.00 0.41
510: Jemco-----	60	Not limited		Not limited		Very limited Slope Depth to bedrock	1.00 0.01
Moento-----	25	Not limited		Not limited		Very limited Slope Depth to bedrock	1.00 0.06
511: Granath-----	50	Not limited		Not limited		Very limited Slope	1.00

Table 13.--Recreation--Continued

Map symbol and soil name	Pct. of map unit	Camp areas		Picnic areas		Playgrounds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
511: Fughes-----	35	Somewhat limited Restricted permeability	0.41	Somewhat limited Restricted permeability	0.41	Very limited Slope Restricted permeability	1.00 0.41
512: Wetherill-----	85	Somewhat limited Dusty	0.50	Somewhat limited Dusty	0.50	Somewhat limited Slope Dusty	0.50 0.50
513: Maudrey-----	50	Somewhat limited Restricted permeability	0.41	Somewhat limited Restricted permeability	0.41	Very limited Slope Restricted permeability	1.00 0.41
Tombac-----	35	Somewhat limited Restricted permeability	0.41	Somewhat limited Restricted permeability	0.41	Very limited Slope Restricted permeability	1.00 0.41
525: Arabrab-----	85	Very limited Depth to bedrock	1.00	Very limited Depth to bedrock	1.00	Very limited Depth to bedrock Slope	1.00 1.00
526: Lonecone-----	80	Not limited		Not limited		Not limited	
527: Ormiston-----	50	Very limited Slope Too stony Restricted permeability	1.00 0.76 0.41	Very limited Slope Too stony Restricted permeability	1.00 0.76 0.41	Very limited Slope Too stony Restricted permeability Content of large stones	1.00 0.76 0.41 0.03

Table 13.--Recreation--Continued

Map symbol and soil name	Pct. of map unit	Camp areas		Picnic areas		Playgrounds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
527: Beje-----	35	Very limited Depth to bedrock Slope Too stony	1.00 1.00 0.76	Very limited Depth to bedrock Slope Too stony	1.00 1.00 0.76	Very limited Depth to bedrock Slope Too stony Content of large stones	1.00 1.00 0.76 0.01
552: Burnson-----	80	Somewhat limited Restricted permeability	0.41	Somewhat limited Restricted permeability	0.41	Very limited Slope Restricted permeability	1.00 0.41
553: Burnson-----	50	Very limited Slope Restricted permeability	1.00 0.41	Very limited Slope Restricted permeability	1.00 0.41	Very limited Slope Restricted permeability	1.00 0.41
Herm-----	30	Very limited Slope Restricted permeability	1.00 0.41	Very limited Slope Restricted permeability	1.00 0.41	Very limited Slope Restricted permeability	1.00 0.41
571: Mancos-----	40	Somewhat limited Restricted permeability	0.44	Somewhat limited Restricted permeability	0.44	Very limited Slope Restricted permeability Depth to bedrock	1.00 0.44 0.16
Skisams-----	35	Very limited Depth to bedrock	1.00	Very limited Depth to bedrock	1.00	Very limited Depth to bedrock Slope	1.00 1.00
Skutum-----	20	Somewhat limited Restricted permeability	0.96	Somewhat limited Restricted permeability	0.96	Very limited Slope Restricted permeability	1.00 0.96

Table 13.--Recreation--Continued

Map symbol and soil name	Pct. of map unit	Camp areas		Picnic areas		Playgrounds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
572: Sudduth-----	85	Somewhat limited Restricted permeability	0.96	Somewhat limited Restricted permeability	0.96	Very limited Slope Restricted permeability Content of large stones	1.00 0.96 0.01
600: Valto-----	50	Very limited Depth to bedrock Slope	1.00 1.00	Very limited Depth to bedrock Slope	1.00 1.00	Very limited Slope Depth to bedrock	1.00 1.00
Rock outcrop-----	35	Not rated		Not rated		Not rated	
601: Weminuche-----	85	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
602: Weminuche-----	85	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
603: Weminuche-----	55	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
Anvik-----	25	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
605: Nordicol-----	80	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
606: Snowdon-----	50	Very limited Slope Too stony	1.00 1.00	Very limited Slope Too stony	1.00 1.00	Very limited Slope Too stony Depth to bedrock	1.00 1.00 0.99

Table 13.--Recreation--Continued

Map symbol and soil name	Pct. of map unit	Camp areas		Picnic areas		Playgrounds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
606: Needleton-----	35	Very limited Slope Too stony Restricted permeability	1.00 1.00 0.21	Very limited Slope Too stony Restricted permeability	1.00 1.00 0.21	Very limited Slope Too stony Restricted permeability	1.00 1.00 0.21
607: Graysill-----	45	Very limited Slope Restricted permeability	1.00 0.21	Very limited Slope Restricted permeability	1.00 0.21	Very limited Slope Restricted permeability Depth to bedrock	1.00 0.21 0.03
Scotch-----	35	Very limited Slope Depth to bedrock Restricted permeability	1.00 1.00 0.21	Very limited Slope Depth to bedrock Restricted permeability	1.00 1.00 0.21	Very limited Slope Depth to bedrock Restricted permeability	1.00 1.00 0.21
608: Scotch-----	45	Very limited Slope Depth to bedrock Restricted permeability	1.00 1.00 0.21	Very limited Slope Depth to bedrock Restricted permeability	1.00 1.00 0.21	Very limited Slope Depth to bedrock Restricted permeability	1.00 1.00 0.21
Graysill-----	35	Very limited Slope Restricted permeability	1.00 0.21	Very limited Slope Restricted permeability	1.00 0.21	Very limited Slope Restricted permeability Depth to bedrock	1.00 0.21 0.03
609: Hourglass-----	50	Very limited Slope Restricted permeability	1.00 0.21	Very limited Slope Restricted permeability	1.00 0.21	Very limited Slope Restricted permeability	1.00 0.21

Table 13.--Recreation--Continued

Map symbol and soil name	Pct. of map unit	Camp areas		Picnic areas		Playgrounds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
609: Wander-----	35	Very limited Slope Content of large stones Restricted permeability	1.00 0.61 0.15	Very limited Slope Content of large stones Restricted permeability	1.00 0.61 0.15	Very limited Slope Content of large stones Gravel content Restricted permeability	1.00 1.00 0.52 0.15
610: Wander-----	45	Very limited Slope Too stony Content of large stones Restricted permeability	1.00 1.00 0.61 0.15	Very limited Slope Too stony Content of large stones Restricted permeability	1.00 1.00 0.61 0.15	Very limited Slope Too stony Content of large stones Gravel content Restricted permeability	1.00 1.00 1.00 0.52 0.15
Hotter-----	30	Very limited Slope Depth to bedrock Too stony Content of large stones	1.00 1.00 1.00 0.82	Very limited Slope Depth to bedrock Too stony Content of large stones	1.00 1.00 1.00 0.82	Very limited Slope Depth to bedrock Too stony Content of large stones Gravel content	1.00 1.00 1.00 1.00 0.04
Hourglass-----	15	Very limited Slope Restricted permeability	1.00 0.21	Very limited Slope Restricted permeability	1.00 0.21	Very limited Slope Restricted permeability	1.00 0.21
611: Goldbug-----	85	Very limited Too stony Slope Restricted permeability Too sandy	1.00 1.00 0.41 0.01	Very limited Too stony Slope Restricted permeability Too sandy	1.00 1.00 0.41 0.01	Very limited Too stony Slope Restricted permeability Too sandy	1.00 1.00 0.41 0.01

Table 13.--Recreation--Continued

Map symbol and soil name	Pct. of map unit	Camp areas		Picnic areas		Playgrounds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
612: Haviland-----	50	Very limited Slope Restricted permeability	1.00 0.21	Very limited Slope Restricted permeability	1.00 0.21	Very limited Slope Restricted permeability	1.00 0.21
Graysill-----	35	Very limited Slope Restricted permeability	1.00 0.21	Very limited Slope Restricted permeability	1.00 0.21	Very limited Slope Restricted permeability Depth to bedrock	1.00 0.21 0.03
615: Haviland-----	75	Very limited Slope Restricted permeability	1.00 0.21	Very limited Slope Restricted permeability	1.00 0.21	Very limited Slope Restricted permeability	1.00 0.21
616: Furtlewis-----	85	Somewhat limited Restricted permeability	0.41	Somewhat limited Restricted permeability	0.41	Very limited Slope Restricted permeability Depth to bedrock	1.00 0.41 0.01
617: Shawa-----	85	Somewhat limited Slope	0.74	Somewhat limited Slope	0.74	Very limited Slope	1.00
618: Nordicol-----	50	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
Valto-----	35	Very limited Slope Depth to bedrock	1.00 1.00	Very limited Slope Depth to bedrock	1.00 1.00	Very limited Slope Depth to bedrock	1.00 1.00
619: Nordicol-----	80	Very limited Slope Too stony	1.00 1.00	Very limited Slope Too stony	1.00 1.00	Very limited Slope Too stony	1.00 1.00

Table 13.--Recreation--Continued

Map symbol and soil name	Pct. of map unit	Camp areas		Picnic areas		Playgrounds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
620: Caviness-----	90	Very limited Slope Restricted permeability	1.00 0.96	Very limited Slope Restricted permeability	1.00 0.96	Very limited Slope Restricted permeability	1.00 0.96
621: Granturk-----	85	Very limited Depth to bedrock Slope	1.00 1.00	Very limited Depth to bedrock Slope	1.00 1.00	Very limited Depth to bedrock Slope	1.00 1.00
622: Granturk-----	60	Very limited Slope Depth to bedrock	1.00 1.00	Very limited Slope Depth to bedrock	1.00 1.00	Very limited Slope Depth to bedrock	1.00 1.00
Rock outcrop-----	30	Not rated		Not rated		Not rated	
623: Chris-----	50	Very limited Slope Restricted permeability	1.00 0.96	Very limited Slope Restricted permeability	1.00 0.96	Very limited Slope Restricted permeability	1.00 0.96
Nordicol-----	40	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
699: Haplocryolls-----	40	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
Rubble land-----	40	Not rated		Not rated		Not rated	
700: Bradfield-----	90	Somewhat limited Restricted permeability	0.41	Somewhat limited Restricted permeability	0.41	Somewhat limited Restricted permeability Slope	0.41 0.12

Table 13.--Recreation--Continued

Map symbol and soil name	Pct. of map unit	Camp areas		Picnic areas		Playgrounds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
703: Narraguinnep-----	80	Very limited Slope Restricted permeability	1.00 0.41	Very limited Slope Restricted permeability	1.00 0.41	Very limited Slope Restricted permeability	1.00 0.41
704: Gladlow-----	30	Somewhat limited Restricted permeability Slope	0.41 0.04	Somewhat limited Restricted permeability Slope	0.41 0.04	Very limited Slope Restricted permeability	1.00 0.41
Rock outcrop-----	30	Not rated		Not rated		Not rated	
Ruko-----	20	Very limited Depth to bedrock Restricted permeability Slope	1.00 0.41 0.04	Very limited Depth to bedrock Restricted permeability Slope	1.00 0.41 0.04	Very limited Depth to bedrock Slope Restricted permeability	1.00 1.00 0.41
705: Helmet-----	80	Somewhat limited Restricted permeability	0.96	Somewhat limited Restricted permeability	0.96	Very limited Slope Restricted permeability	1.00 0.96
706: Narraguinnep-----	85	Somewhat limited Restricted permeability Slope	0.41 0.16	Somewhat limited Restricted permeability Slope	0.41 0.16	Very limited Slope Restricted permeability	1.00 0.41
707: Teedown-----	50	Somewhat limited Restricted permeability Slope	0.96 0.16	Somewhat limited Restricted permeability Slope	0.96 0.16	Very limited Slope Restricted permeability Content of large stones	1.00 0.96 0.03
Nordicol-----	35	Somewhat limited Slope	0.16	Somewhat limited Slope	0.16	Very limited Slope	1.00

Table 13.--Recreation--Continued

Map symbol and soil name	Pct. of map unit	Camp areas		Picnic areas		Playgrounds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
708: Helmet-----	80	Very limited Slope Restricted permeability	1.00 0.96	Very limited Slope Restricted permeability	1.00 0.96	Very limited Slope Restricted permeability	1.00 0.96
709: Teedown-----	85	Somewhat limited Restricted permeability	0.96	Somewhat limited Restricted permeability	0.96	Very limited Slope Restricted permeability Content of large stones	1.00 0.96 0.03
710: Sili-----	50	Somewhat limited Slope	0.16	Somewhat limited Slope	0.16	Very limited Slope	1.00
Zigzag-----	30	Very limited Depth to bedrock Restricted permeability Gravel content Slope	1.00 0.41 0.16 0.16	Very limited Depth to bedrock Restricted permeability Gravel content Slope	1.00 0.41 0.16 0.16	Very limited Gravel content Depth to bedrock Slope Restricted permeability Content of large stones	1.00 1.00 1.00 0.41 0.03
711: Sili-----	85	Somewhat limited Slope	0.16	Somewhat limited Slope	0.16	Very limited Slope	1.00
714: Helmet-----	80	Very limited Slope Restricted permeability	1.00 0.96	Very limited Slope Restricted permeability	1.00 0.96	Very limited Slope Restricted permeability	1.00 0.96
718: Narraguinnep-----	50	Very limited Slope Restricted permeability	1.00 0.41	Very limited Slope Restricted permeability	1.00 0.41	Very limited Slope Restricted permeability	1.00 0.41

Table 13.--Recreation--Continued

Map symbol and soil name	Pct. of map unit	Camp areas		Picnic areas		Playgrounds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
718: Gladlow-----	40	Very limited Slope Restricted permeability	1.00 0.41	Very limited Slope Restricted permeability	1.00 0.41	Very limited Slope Restricted permeability	1.00 0.41
720: Zigzag-----	45	Very limited Slope Depth to bedrock Restricted permeability Gravel content	1.00 1.00 0.41 0.16	Very limited Slope Depth to bedrock Restricted permeability Gravel content	1.00 1.00 0.41 0.16	Very limited Gravel content Slope Depth to bedrock Restricted permeability Content of large stones	1.00 1.00 1.00 0.41 0.03
Rock outcrop-----	35	Not rated		Not rated		Not rated	
723: Zigzag-----	50	Very limited Slope Depth to bedrock Restricted permeability Gravel content	1.00 1.00 0.41 0.16	Very limited Slope Depth to bedrock Restricted permeability Gravel content	1.00 1.00 0.41 0.16	Very limited Gravel content Slope Depth to bedrock Restricted permeability Content of large stones	1.00 1.00 1.00 0.41 0.03
Rock outcrop-----	40	Not rated		Not rated		Not rated	
725: Shawa-----	85	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
727: Teedown-----	50	Very limited Slope Restricted permeability	1.00 0.96	Very limited Slope Restricted permeability	1.00 0.96	Very limited Slope Restricted permeability Content of large stones	1.00 0.96 0.03

Table 13.--Recreation--Continued

Map symbol and soil name	Pct. of map unit	Camp areas		Picnic areas		Playgrounds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
727: Nordicol-----	35	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
730: Baird Hollow-----	35	Very limited Slope Restricted permeability	1.00 0.96	Very limited Slope Restricted permeability	1.00 0.96	Very limited Slope Restricted permeability	1.00 0.96
Nordicol-----	30	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
Ryman-----	25	Very limited Slope Restricted permeability	1.00 0.96	Very limited Slope Restricted permeability	1.00 0.96	Very limited Slope Restricted permeability	1.00 0.96
731: Ryman-----	60	Somewhat limited Restricted permeability	0.96	Somewhat limited Restricted permeability	0.96	Somewhat limited Restricted permeability Slope	0.96 0.50
Adel-----	30	Not limited		Not limited		Very limited Slope Gravel content	1.00 0.04
732: Adel-----	50	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope Gravel content	1.00 0.04
Quazar-----	40	Very limited Slope Content of large stones	1.00 0.61	Very limited Slope Content of large stones	1.00 0.61	Very limited Slope Content of large stones Gravel content	1.00 1.00 0.52
733: Adel-----	70	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope Gravel content	1.00 0.04

Table 13.--Recreation--Continued

Map symbol and soil name	Pct. of map unit	Camp areas		Picnic areas		Playgrounds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
733: Bucklon-----	20	Very limited Depth to bedrock Slope	1.00 1.00	Very limited Depth to bedrock Slope	1.00 1.00	Very limited Slope Depth to bedrock	1.00 1.00
734: Ryman-----	60	Somewhat limited Restricted permeability	0.96	Somewhat limited Restricted permeability	0.96	Very limited Slope Restricted permeability	1.00 0.96
Clayburn-----	30	Somewhat limited Restricted permeability	0.21	Somewhat limited Restricted permeability	0.21	Very limited Slope Restricted permeability Gravel content	1.00 0.21 0.04
740: Cowtown-----	50	Very limited Slope Restricted permeability	1.00 0.96	Very limited Slope Restricted permeability	1.00 0.96	Very limited Slope Restricted permeability Content of large stones	1.00 0.96 0.08
Scout-----	30	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
741: Cowtown-----	45	Very limited Slope Restricted permeability	1.00 0.96	Very limited Slope Restricted permeability	1.00 0.96	Very limited Slope Restricted permeability Content of large stones	1.00 0.96 0.08
Scout-----	35	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00

Table 13.--Recreation--Continued

Map symbol and soil name	Pct. of map unit	Camp areas		Picnic areas		Playgrounds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
750: Archuleta-----	50	Very limited Depth to bedrock Slope Too stony Content of large stones	1.00 1.00 0.76 0.14	Very limited Depth to bedrock Slope Too stony Content of large stones	1.00 1.00 0.76 0.14	Very limited Slope Depth to bedrock Content of large stones Too stony Gravel content	1.00 1.00 1.00 0.76 0.14
Sheek-----	35	Very limited Slope Too stony	1.00 0.76	Very limited Slope Too stony	1.00 0.76	Very limited Slope Too stony	1.00 0.76
801: Fughes-----	50	Very limited Slope Too stony Restricted permeability	1.00 1.00 0.41	Very limited Slope Too stony Restricted permeability	1.00 1.00 0.41	Very limited Slope Too stony Restricted permeability Content of large stones	1.00 1.00 0.41 0.20
Sheek-----	35	Very limited Slope Too stony Content of large stones	1.00 1.00 0.32	Very limited Slope Too stony Content of large stones	1.00 1.00 0.32	Very limited Slope Too stony Content of large stones Gravel content	1.00 1.00 1.00 0.99
802: Argiustolls-----	30	Very limited Slope Too stony Restricted permeability	1.00 1.00 0.41	Very limited Slope Too stony Restricted permeability	1.00 1.00 0.41	Very limited Slope Too stony Restricted permeability	1.00 1.00 0.41
Haplustalfs-----	30	Very limited Slope Too stony Content of large stones	1.00 1.00 1.00	Very limited Slope Too stony Content of large stones	1.00 1.00 1.00	Very limited Slope Too stony Content of large stones	1.00 1.00 1.00
Rock outcrop-----	25	Not rated		Not rated		Not rated	

Table 13.--Recreation--Continued

Map symbol and soil name	Pct. of map unit	Camp areas		Picnic areas		Playgrounds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
804: Wauquie-----	40	Very limited Slope Too stony Content of large stones Dusty	1.00 1.00 0.58 0.50	Very limited Slope Too stony Content of large stones Dusty	1.00 1.00 0.58 0.50	Very limited Slope Too stony Content of large stones Dusty Gravel content	1.00 1.00 1.00 0.50 0.41
Dolcan-----	25	Very limited Slope Depth to bedrock Too stony Content of large stones	1.00 1.00 1.00 0.06	Very limited Slope Depth to bedrock Too stony Content of large stones	1.00 1.00 1.00 0.06	Very limited Slope Depth to bedrock Too stony Content of large stones Gravel content	1.00 1.00 1.00 1.00 0.21
Rock outcrop-----	20	Not rated		Not rated		Not rated	
805: Shawa-----	50	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
Fughes-----	40	Very limited Slope Restricted permeability	1.00 0.41	Very limited Slope Restricted permeability	1.00 0.41	Very limited Slope Restricted permeability	1.00 0.41
806: Shawa-----	45	Very limited Slope Too stony	1.00 0.76	Very limited Slope Too stony	1.00 0.76	Very limited Slope Too stony	1.00 0.76
Fughes-----	35	Very limited Slope Too stony Restricted permeability	1.00 0.76 0.41	Very limited Slope Too stony Restricted permeability	1.00 0.76 0.41	Very limited Slope Too stony Restricted permeability	1.00 0.76 0.41

Table 13.--Recreation--Continued

Map symbol and soil name	Pct. of map unit	Camp areas		Picnic areas		Playgrounds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
809: Argiustolls-----	45	Very limited Slope Too stony Restricted permeability	1.00 0.76 0.41	Very limited Slope Too stony Restricted permeability	1.00 0.76 0.41	Very limited Slope Too stony Restricted permeability	1.00 0.76 0.41
Haplustalfs-----	40	Very limited Slope Content of large stones Too stony	1.00 0.99 0.76	Very limited Slope Content of large stones Too stony	1.00 0.99 0.76	Very limited Slope Content of large stones Too stony Gravel content	1.00 1.00 0.76 0.01
813: Fughes-----	80	Very limited Slope Restricted permeability	1.00 0.41	Very limited Slope Restricted permeability	1.00 0.41	Very limited Slope Restricted permeability Content of large stones	1.00 0.41 0.01
814: Leaps-----	50	Very limited Slope Restricted permeability	1.00 0.96	Very limited Slope Restricted permeability	1.00 0.96	Very limited Slope Restricted permeability	1.00 0.96
Hofly-----	35	Very limited Slope Restricted permeability	1.00 0.96	Very limited Slope Restricted permeability	1.00 0.96	Very limited Slope Restricted permeability	1.00 0.96
815: Behanco-----	45	Not limited		Not limited		Very limited Slope	1.00
Powderhorn family---	40	Somewhat limited Restricted permeability	0.96	Somewhat limited Restricted permeability	0.96	Very limited Slope Restricted permeability	1.00 0.96

Table 13.--Recreation--Continued

Map symbol and soil name	Pct. of map unit	Camp areas		Picnic areas		Playgrounds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
816: Storm-----	85	Very limited Slope Restricted permeability	1.00 0.21	Very limited Slope Restricted permeability	1.00 0.21	Very limited Slope Restricted permeability	1.00 0.21
826: Ute-----	50	Very limited Depth to saturated zone Restricted permeability	1.00 0.96	Very limited Depth to saturated zone Restricted permeability	0.99 0.96	Very limited Depth to saturated zone Restricted permeability	1.00 0.96
Frisko-----	40	Somewhat limited Slope	0.84	Somewhat limited Slope	0.84	Very limited Slope	1.00
830: Dressel-----	55	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
Jersey-----	30	Very limited Slope Restricted permeability	1.00 0.96	Very limited Slope Restricted permeability	1.00 0.96	Very limited Slope Restricted permeability	1.00 0.96
832: Storm-----	85	Somewhat limited Restricted permeability	0.21	Somewhat limited Restricted permeability	0.21	Very limited Slope Restricted permeability	1.00 0.21
834: Haycamp-----	60	Very limited Slope Restricted permeability	1.00 0.96	Very limited Slope Restricted permeability	1.00 0.96	Very limited Slope Restricted permeability	1.00 0.96
Jersey-----	25	Very limited Slope Restricted permeability	1.00 0.96	Very limited Slope Restricted permeability	1.00 0.96	Very limited Slope Restricted permeability	1.00 0.96

Table 13.--Recreation--Continued

Map symbol and soil name	Pct. of map unit	Camp areas		Picnic areas		Playgrounds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
835: Brumley-----	85	Not limited		Not limited		Somewhat limited Slope	0.50
860: Granath-----	55	Not limited		Not limited		Very limited Slope	1.00
Nortez-----	30	Somewhat limited Restricted permeability	0.41	Somewhat limited Restricted permeability	0.41	Very limited Slope Restricted permeability Depth to bedrock	1.00 0.41 0.29
861: Morapos-----	80	Somewhat limited Restricted permeability	0.41	Somewhat limited Restricted permeability	0.41	Very limited Slope Restricted permeability	1.00 0.41
862: Granath-----	40	Not limited		Not limited		Very limited Slope	1.00
Dolores-----	25	Somewhat limited Restricted permeability	0.41	Somewhat limited Restricted permeability	0.41	Very limited Slope Restricted permeability	1.00 0.41
Fivepine-----	20	Very limited Depth to bedrock Too stony Restricted permeability Content of large stones	1.00 0.76 0.41 0.08	Very limited Depth to bedrock Too stony Restricted permeability Content of large stones	1.00 0.76 0.41 0.08	Very limited Depth to bedrock Content of large stones Slope Too stony Restricted permeability	1.00 1.00 1.00 0.76 0.41
863: Granath-----	40	Not limited		Not limited		Very limited Slope	1.00

Table 13.--Recreation--Continued

Map symbol and soil name	Pct. of map unit	Camp areas		Picnic areas		Playgrounds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
863: Ormiston-----	25	Somewhat limited Too stony Restricted permeability	0.76 0.41	Somewhat limited Too stony Restricted permeability	0.76 0.41	Very limited Slope Too stony Restricted permeability Content of large stones	1.00 0.76 0.41 0.03
Fivepine-----	20	Very limited Depth to bedrock Too stony Restricted permeability Content of large stones	1.00 0.76 0.41 0.08	Very limited Depth to bedrock Too stony Restricted permeability Content of large stones	1.00 0.76 0.41 0.08	Very limited Depth to bedrock Content of large stones Slope Too stony Restricted permeability	1.00 1.00 1.00 0.76 0.41
890: Tamarron-----	45	Very limited Slope Restricted permeability	1.00 0.21	Very limited Slope Restricted permeability	1.00 0.21	Very limited Slope Restricted permeability Depth to bedrock	1.00 0.21 0.01
Frisko-----	35	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
891: Tamarron-----	45	Very limited Slope Restricted permeability	1.00 0.21	Very limited Slope Restricted permeability	1.00 0.21	Very limited Slope Restricted permeability Depth to bedrock	1.00 0.21 0.01
Frisko-----	40	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
901: Granath-----	45	Not limited		Not limited		Very limited Slope	1.00

Table 13.--Recreation--Continued

Map symbol and soil name	Pct. of map unit	Camp areas		Picnic areas		Playgrounds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
901: Zoltay-----	25	Somewhat limited Restricted permeability	0.41	Somewhat limited Restricted permeability	0.41	Very limited Slope Restricted permeability	1.00 0.41
Nortez-----	20	Somewhat limited Restricted permeability	0.41	Somewhat limited Restricted permeability	0.41	Very limited Slope Restricted permeability Depth to bedrock	1.00 0.41 0.29
903: Anvik-----	85	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
904: Beje-----	85	Very limited Depth to bedrock Slope	1.00 0.96	Very limited Depth to bedrock Slope	1.00 0.96	Very limited Depth to bedrock Slope	1.00 1.00
905: Cryaquolls-----	95	Very limited Depth to saturated zone Flooding	1.00 1.00	Somewhat limited Depth to saturated zone	0.99	Very limited Depth to saturated zone Flooding	1.00 0.60
906: Archuleta-----	80	Very limited Depth to bedrock Slope	1.00 1.00	Very limited Depth to bedrock Slope	1.00 1.00	Very limited Slope Depth to bedrock Content of large stones	1.00 1.00 0.01
907: Archuleta-----	45	Very limited Depth to bedrock Slope	1.00 1.00	Very limited Depth to bedrock Slope	1.00 1.00	Very limited Slope Depth to bedrock Content of large stones	1.00 1.00 0.01

Table 13.--Recreation--Continued

Map symbol and soil name	Pct. of map unit	Camp areas		Picnic areas		Playgrounds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
907: Sanchez-----	30	Very limited Depth to bedrock Slope Content of large stones	1.00 1.00 0.61	Very limited Depth to bedrock Slope Content of large stones	1.00 1.00 0.61	Very limited Content of large stones Slope Depth to bedrock Gravel content	1.00 1.00 1.00 0.87
908: Adel-----	85	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope Gravel content	1.00 0.04
909: Adel-----	90	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope Gravel content	1.00 0.04
917: Chris-----	85	Very limited Slope Restricted permeability	1.00 0.96	Very limited Slope Restricted permeability	1.00 0.96	Very limited Slope Restricted permeability	1.00 0.96
919: Clayburn-----	90	Somewhat limited Restricted permeability	0.21	Somewhat limited Restricted permeability	0.21	Very limited Slope Restricted permeability Gravel content	1.00 0.21 0.04
920: Clayburn-----	85	Very limited Slope Restricted permeability Content of large stones	1.00 0.21 0.08	Very limited Slope Restricted permeability Content of large stones	1.00 0.21 0.08	Very limited Slope Content of large stones Restricted permeability	1.00 1.00 0.21

Table 13.--Recreation--Continued

Map symbol and soil name	Pct. of map unit	Camp areas		Picnic areas		Playgrounds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
926: Ustolls-----	45	Very limited Slope Content of large stones	1.00 0.32	Very limited Slope Content of large stones	1.00 0.32	Very limited Slope Content of large stones Gravel content	1.00 1.00 0.05
Rock outcrop-----	40	Not rated		Not rated		Not rated	
930: Fortlewis-----	45	Very limited Slope Restricted permeability	1.00 0.41	Very limited Slope Restricted permeability	1.00 0.41	Very limited Slope Restricted permeability Depth to bedrock	1.00 0.41 0.01
Rock outcrop-----	35	Not rated		Not rated		Not rated	
934: Ceek-----	85	Very limited Slope Restricted permeability	1.00 0.41	Very limited Slope Restricted permeability	1.00 0.41	Very limited Slope Restricted permeability	1.00 0.41
937: Herm-----	85	Very limited Slope Restricted permeability	1.00 0.41	Very limited Slope Restricted permeability	1.00 0.41	Very limited Slope Restricted permeability	1.00 0.41
939: Ohwiler-----	90	Not limited		Not limited		Very limited Slope	1.00
940: Horsethief-----	85	Very limited Slope Restricted permeability	1.00 0.21	Very limited Slope Restricted permeability	1.00 0.21	Very limited Slope Restricted permeability	1.00 0.21

Table 13.--Recreation--Continued

Map symbol and soil name	Pct. of map unit	Camp areas		Picnic areas		Playgrounds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
942: Fivepine-----	50	Very limited Depth to bedrock Restricted permeability	1.00 0.41	Very limited Depth to bedrock Restricted permeability	1.00 0.41	Very limited Depth to bedrock Slope Restricted permeability Gravel content Content of large stones	1.00 1.00 0.41 0.13 0.03
Pino-----	35	Somewhat limited Restricted permeability	0.41	Somewhat limited Restricted permeability	0.41	Very limited Slope Restricted permeability Depth to bedrock	1.00 0.41 0.16
945: Nizhoni-----	35	Very limited Depth to bedrock Slope	1.00 1.00	Very limited Depth to bedrock Slope	1.00 1.00	Very limited Depth to bedrock Slope Content of large stones	1.00 1.00 0.03
Arabrab-----	30	Very limited Depth to bedrock	1.00	Very limited Depth to bedrock	1.00	Very limited Depth to bedrock Slope	1.00 1.00
Rock outcrop-----	30	Not rated		Not rated		Not rated	
950: Pescar-----	80	Very limited Depth to saturated zone Flooding	1.00 1.00	Somewhat limited Depth to saturated zone Flooding	0.94 0.40	Very limited Depth to saturated zone Flooding	1.00 1.00
951: Endoaquolls-----	90	Very limited Depth to saturated zone Flooding	1.00 1.00	Very limited Depth to saturated zone Flooding	0.99 0.40	Very limited Depth to saturated zone Flooding Content of large stones	1.00 1.00 0.01

Table 13.--Recreation--Continued

Map symbol and soil name	Pct. of map unit	Camp areas		Picnic areas		Playgrounds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
955: Umbarg-----	35	Very limited Flooding	1.00	Not limited		Not limited	
Winner-----	30	Very limited Depth to saturated zone Flooding Restricted permeability	1.00 1.00 0.21	Somewhat limited Depth to saturated zone Restricted permeability	0.94 0.21	Very limited Depth to saturated zone Restricted permeability Content of large stones	1.00 0.21 0.01
Tesajo-----	20	Very limited Flooding Gravel content	1.00 0.52	Somewhat limited Gravel content	0.52	Very limited Gravel content Content of large stones	1.00 0.11
956: Ormiston-----	50	Very limited Content of large stones Too stony Restricted permeability	1.00 0.76 0.41	Very limited Content of large stones Too stony Restricted permeability	1.00 0.76 0.41	Very limited Content of large stones Slope Too stony Restricted permeability	1.00 1.00 0.76 0.41
Granath-----	35	Not limited		Not limited		Very limited Slope	1.00
958: Sheek-----	35	Very limited Slope Too stony	1.00 0.53	Very limited Slope Too stony	1.00 0.53	Very limited Slope Too stony	1.00 0.53
Archuleta-----	30	Very limited Slope Depth to bedrock Too stony	1.00 1.00 0.53	Very limited Slope Depth to bedrock Too stony	1.00 1.00 0.53	Very limited Slope Depth to bedrock Too stony	1.00 1.00 0.53
Rock outcrop-----	20	Not rated		Not rated		Not rated	

Table 13.--Recreation--Continued

Map symbol and soil name	Pct. of map unit	Camp areas		Picnic areas		Playgrounds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
959: Granath-----	90	Not limited		Not limited		Somewhat limited Slope	0.50
965: Narraguinnep-----	55	Somewhat limited Restricted permeability	0.41	Somewhat limited Restricted permeability	0.41	Very limited Slope Restricted permeability	1.00 0.41
Dapoin-----	30	Somewhat limited Restricted permeability	0.41	Somewhat limited Restricted permeability	0.41	Very limited Slope Restricted permeability	1.00 0.41
966: Cryaquepts-----	85	Very limited Depth to saturated zone Flooding	1.00 1.00	Somewhat limited Depth to saturated zone Flooding	0.99 0.40	Very limited Depth to saturated zone Flooding	1.00 1.00
967: Quazar-----	40	Very limited Slope Content of large stones	1.00 0.61	Very limited Slope Content of large stones	1.00 0.61	Very limited Slope Content of large stones Gravel content	1.00 1.00 0.52
Cryaquolls-----	25	Very limited Depth to saturated zone Flooding	1.00 1.00	Somewhat limited Depth to saturated zone	0.99	Very limited Depth to saturated zone Flooding	1.00 0.60
Cryohemists-----	20	Very limited Depth to saturated zone Flooding Content of organic matter	1.00 1.00 1.00	Very limited Content of organic matter Depth to saturated zone Flooding	1.00 0.99 0.40	Very limited Depth to saturated zone Content of organic matter Flooding Slope	1.00 1.00 1.00 0.12

Table 13.--Recreation--Continued

Map symbol and soil name	Pct. of map unit	Camp areas		Picnic areas		Playgrounds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
968: Nortez-----	50	Somewhat limited Restricted permeability	0.41	Somewhat limited Restricted permeability	0.41	Very limited Slope Restricted permeability Depth to bedrock	1.00 0.41 0.29
Granath-----	35	Not limited		Not limited		Very limited Slope	1.00
969: Nortez-----	45	Somewhat limited Restricted permeability	0.41	Somewhat limited Restricted permeability	0.41	Very limited Slope Restricted permeability Depth to bedrock	1.00 0.41 0.29
Fivepine-----	40	Very limited Depth to bedrock Restricted permeability	1.00 0.41	Very limited Depth to bedrock Restricted permeability	1.00 0.41	Very limited Depth to bedrock Slope Restricted permeability Gravel content Content of large stones	1.00 1.00 0.41 0.13 0.03
972: Pagoda-----	35	Very limited Slope Restricted permeability	1.00 0.41	Very limited Slope Restricted permeability	1.00 0.41	Very limited Slope Restricted permeability	1.00 0.41
Coulterg-----	30	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
Wiggler-----	20	Very limited Slope Depth to bedrock Gravel content	1.00 1.00 0.14	Very limited Slope Depth to bedrock Gravel content	1.00 1.00 0.14	Very limited Slope Depth to bedrock Gravel content	1.00 1.00 1.00

Table 13.--Recreation--Continued

Map symbol and soil name	Pct. of map unit	Camp areas		Picnic areas		Playgrounds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
989: Ryman-----	90	Somewhat limited Restricted permeability Slope	0.96 0.04	Somewhat limited Restricted permeability Slope	0.96 0.04	Very limited Slope Restricted permeability	1.00 0.96
990: Ryman, warm-----	85	Somewhat limited Restricted permeability Slope	0.96 0.04	Somewhat limited Restricted permeability Slope	0.96 0.04	Very limited Slope Restricted permeability	1.00 0.96
992: Gladlow-----	85	Somewhat limited Slope Restricted permeability	0.63 0.41	Somewhat limited Slope Restricted permeability	0.63 0.41	Very limited Slope Restricted permeability	1.00 0.41
996: Zoltay-----	85	Somewhat limited Restricted permeability Slope	0.41 0.04	Somewhat limited Restricted permeability Slope	0.41 0.04	Very limited Slope Restricted permeability	1.00 0.41
997: Zigzag-----	40	Very limited Slope Depth to bedrock Restricted permeability	1.00 1.00 0.41	Very limited Slope Depth to bedrock Restricted permeability	1.00 1.00 0.41	Very limited Slope Depth to bedrock Restricted permeability Content of large stones	1.00 1.00 0.41 0.01
Bodot-----	25	Very limited Slope Restricted permeability	1.00 0.41	Very limited Slope Restricted permeability	1.00 0.41	Very limited Slope Restricted permeability Depth to bedrock	1.00 0.41 0.01
Rock outcrop-----	25	Not rated		Not rated		Not rated	

Table 14.--Recreation

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the limitation. See text for further explanation of ratings in this table.)

Map symbol and soil name	Pct. of map unit	Paths and trails		Off-road motorcycle trails		Golf fairways	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
1: Bradfield-----	45	Not limited		Not limited		Not limited	
Narraguinnep-----	40	Not limited		Not limited		Not limited	
2: Hesperus-----	85	Not limited		Not limited		Not limited	
10: Lillings-----	85	Not limited		Not limited		Not limited	
12: Shawa-----	80	Not limited		Not limited		Not limited	
13: Fughes-----	85	Not limited		Not limited		Somewhat limited Content of large stones	0.01
14: Dalmatian-----	35	Not limited		Not limited		Not limited	
Apmay-----	35	Not limited		Not limited		Somewhat limited Depth to saturated zone	0.19
Schrader-----	15	Somewhat limited Depth to saturated zone	0.44	Somewhat limited Depth to saturated zone	0.44	Somewhat limited Depth to saturated zone Flooding	0.75 0.60
15: Umbarg-----	80	Not limited		Not limited		Not limited	
16: Payter-----	85	Not limited		Not limited		Somewhat limited Slope	0.04

Table 14.--Recreation--Continued

Map symbol and soil name	Pct. of map unit	Paths and trails		Off-road motorcycle trails		Golf fairways	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
17: Fluvaquents-----	55	Very limited Too sandy Depth to saturated zone Flooding	1.00 0.44 0.40	Very limited Too sandy Depth to saturated zone Flooding	1.00 0.44 0.40	Very limited Flooding Depth to saturated zone Too sandy Droughty	1.00 0.75 0.50 0.42
Haplustolls-----	30	Not limited		Not limited		Somewhat limited Droughty	0.16
18: Endoaquolls-----	45	Very limited Depth to saturated zone Flooding	1.00 0.40	Very limited Depth to saturated zone Flooding	1.00 0.40	Very limited Flooding Depth to saturated zone Droughty Content of large stones	1.00 1.00 0.01 0.01
Ustifluvents-----	40	Not limited		Not limited		Somewhat limited Flooding Content of large stones	0.60 0.01
20: Mavreeso-----	75	Somewhat limited Slope	0.18	Not limited		Very limited Slope Content of large stones	1.00 0.01
51: Clayburn-----	55	Not limited		Not limited		Very limited Slope	1.00
Hourglass-----	35	Not limited		Not limited		Very limited Slope	1.00
52: Ohwiler-----	80	Somewhat limited Slope	0.68	Not limited		Very limited Slope	1.00

Table 14.--Recreation--Continued

Map symbol and soil name	Pct. of map unit	Paths and trails		Off-road motorcycle trails		Golf fairways	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
53: Cryaquolls-----	50	Somewhat limited Depth to saturated zone	0.99	Somewhat limited Depth to saturated zone	0.99	Somewhat limited Depth to saturated zone Flooding Content of large stones	0.99 0.60 0.01
Typic Cryaquents----	35	Somewhat limited Depth to saturated zone	0.99	Somewhat limited Depth to saturated zone	0.99	Somewhat limited Depth to saturated zone Flooding Droughty	0.99 0.60 0.09
54: Quazar-----	90	Very limited Too stony Content of large stones	1.00 0.61	Very limited Too stony Content of large stones	1.00 0.61	Very limited Content of large stones Droughty Slope	1.00 0.94 0.16
56: Typic Cryaquents----	35	Somewhat limited Depth to saturated zone	0.99	Somewhat limited Depth to saturated zone	0.99	Somewhat limited Depth to saturated zone Flooding	0.99 0.60
Cryaquolls-----	30	Somewhat limited Depth to saturated zone	0.99	Somewhat limited Depth to saturated zone	0.99	Somewhat limited Depth to saturated zone Flooding Droughty Content of large stones	0.99 0.60 0.01 0.01
Cryofibrists-----	25	Somewhat limited Depth to saturated zone Flooding	0.44 0.40	Somewhat limited Depth to saturated zone Flooding	0.44 0.40	Very limited Flooding Depth to saturated zone	1.00 0.75

Table 14.--Recreation--Continued

Map symbol and soil name	Pct. of map unit	Paths and trails		Off-road motorcycle trails		Golf fairways	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
57: Howardsville-----	80	Not limited		Not limited		Very limited Droughty Content of large stones Gravel content	1.00 0.20 0.09
58: Fughes-----	55	Not limited		Not limited		Very limited Slope Content of large stones	1.00 0.01
Herm-----	35	Not limited		Not limited		Very limited Slope	1.00
59: Fughes-----	45	Very limited Slope Too stony	1.00 0.76	Somewhat limited Slope Too stony	0.78 0.76	Very limited Slope Content of large stones	1.00 0.92
Herm-----	35	Very limited Slope Content of large stones	1.00 0.08	Somewhat limited Slope Content of large stones	0.78 0.08	Very limited Slope Content of large stones	1.00 1.00
60: Grimes-----	90	Somewhat limited Content of large stones	0.42	Somewhat limited Content of large stones	0.42	Very limited Droughty Content of large stones	1.00 1.00
110: Sheek-----	45	Somewhat limited Too stony Content of large stones Slope	0.76 0.32 0.18	Somewhat limited Too stony Content of large stones	0.76 0.32	Very limited Content of large stones Slope	1.00 1.00
Ormiston-----	35	Not limited		Not limited		Somewhat limited Content of large stones	0.03

Table 14.--Recreation--Continued

Map symbol and soil name	Pct. of map unit	Paths and trails		Off-road motorcycle trails		Golf fairways	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
111: Fardraw-----	80	Not limited		Not limited		Somewhat limited Content of large stones Slope	0.08 0.04
113: Dolores-----	80	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope Droughty	1.00 0.16
150: Silex-----	70	Very limited Water erosion	1.00	Very limited Water erosion	1.00	Very limited Depth to bedrock Slope Droughty	1.00 1.00 0.48
Rock outcrop-----	20	Not rated		Not rated		Not rated	
151: Frisco-----	80	Very limited Water erosion Slope	1.00 0.18	Very limited Water erosion	1.00	Very limited Slope	1.00
152: Frisco-----	80	Very limited Slope Water erosion	1.00 1.00	Very limited Water erosion Slope	1.00 0.78	Very limited Slope	1.00
153: Frisco-----	50	Very limited Water erosion Slope	1.00 0.50	Very limited Water erosion	1.00	Very limited Slope	1.00
Horsethief-----	30	Somewhat limited Slope	0.50	Not limited		Very limited Slope	1.00
154: Frisco-----	60	Very limited Slope Water erosion	1.00 1.00	Very limited Water erosion Slope	1.00 1.00	Very limited Slope	1.00

Table 14.--Recreation--Continued

Map symbol and soil name	Pct. of map unit	Paths and trails		Off-road motorcycle trails		Golf fairways	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
154: Horsethief-----	25	Very limited Slope Too stony	1.00 0.76	Very limited Slope Too stony	1.00 0.76	Very limited Slope	1.00
155: Tuckerville-----	70	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
Rock outcrop-----	20	Not rated		Not rated		Not rated	
156: Sponsor-----	60	Somewhat limited Slope	0.92	Not limited		Very limited Slope	1.00
Tuckerville-----	30	Somewhat limited Slope	0.92	Not limited		Very limited Slope	1.00
157: Sponsor-----	60	Somewhat limited Slope Too stony	0.92 0.76	Somewhat limited Too stony	0.76	Very limited Slope	1.00
Tuckerville-----	30	Somewhat limited Slope Too stony	0.92 0.76	Somewhat limited Too stony	0.76	Very limited Slope	1.00
158: Sponsor-----	60	Very limited Slope	1.00	Somewhat limited Slope	0.96	Very limited Slope	1.00
Tuckerville-----	30	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
159: Tuckerville-----	80	Very limited Slope	1.00	Somewhat limited Slope	0.78	Very limited Slope	1.00
160: Anvik-----	40	Very limited Slope	1.00	Somewhat limited Slope	0.08	Very limited Slope	1.00

Table 14.--Recreation--Continued

Map symbol and soil name	Pct. of map unit	Paths and trails		Off-road motorcycle trails		Golf fairways	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
160: Tuckerville-----	35	Very limited Slope	1.00	Somewhat limited Slope	0.08	Very limited Slope	1.00
161: Needleton-----	85	Not limited		Not limited		Somewhat limited Slope Droughty	0.16 0.01
162: Quazar-----	45	Very limited Too stony Slope Content of large stones	1.00 1.00 0.61	Very limited Too stony Slope Content of large stones	1.00 1.00 0.61	Very limited Slope Content of large stones Droughty	1.00 1.00 0.94
Varden-----	40	Very limited Too stony Slope Content of large stones	1.00 1.00 0.61	Very limited Too stony Slope Content of large stones	1.00 1.00 0.61	Very limited Slope Content of large stones Droughty	1.00 1.00 0.95
163: Clayburn-----	50	Somewhat limited Slope	0.32	Not limited		Very limited Slope	1.00
Hourglass-----	35	Somewhat limited Slope	0.32	Not limited		Very limited Slope	1.00
164: Hourglass-----	50	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
Bucklon-----	25	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Depth to bedrock Slope Droughty	1.00 1.00 0.96
Wander-----	15	Very limited Slope Content of large stones	1.00 0.61	Very limited Slope Content of large stones	1.00 0.61	Very limited Slope Content of large stones Droughty	1.00 1.00 0.16

Table 14.--Recreation--Continued

Map symbol and soil name	Pct. of map unit	Paths and trails		Off-road motorcycle trails		Golf fairways	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
165: Pinacol-----	85	Not limited		Not limited		Not limited	
166: Pinacol-----	80	Very limited Slope	1.00	Somewhat limited Slope	0.14	Very limited Slope	1.00
250: Snowdon-----	55	Very limited Slope Too stony	1.00 1.00	Very limited Too stony Slope	1.00 1.00	Very limited Slope Droughty Depth to bedrock	1.00 1.00 0.99
Rock outcrop-----	25	Not rated		Not rated		Not rated	
251: Rock outcrop-----	60	Not rated		Not rated		Not rated	
Snowdon-----	25	Very limited Slope Too stony	1.00 1.00	Very limited Slope Too stony	1.00 1.00	Very limited Slope Droughty Depth to bedrock	1.00 1.00 0.99
254: Typic Cryorthents---	50	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope Content of large stones Droughty	1.00 1.00 0.99
Rubble land-----	30	Not rated		Not rated		Not rated	
330: Needleton-----	85	Somewhat limited Slope	0.32	Not limited		Very limited Slope Droughty	1.00 0.01
331: Needleton-----	80	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope Droughty	1.00 0.01

Table 14.--Recreation--Continued

Map symbol and soil name	Pct. of map unit	Paths and trails		Off-road motorcycle trails		Golf fairways	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
332: Horsethief-----	55	Very limited Slope Too stony	1.00 0.76	Very limited Slope Too stony	1.00 0.76	Very limited Slope Droughty	1.00 0.03
Needleton-----	35	Very limited Slope Too stony	1.00 0.76	Very limited Slope Too stony	1.00 0.76	Very limited Slope Droughty	1.00 0.01
333: Henson, south aspect-----	85	Somewhat limited Slope	0.32	Not limited		Very limited Slope Droughty	1.00 0.43
334: Henson, south aspect-----	80	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope Droughty	1.00 0.43
335: Whitecross-----	55	Very limited Slope	1.00	Somewhat limited Slope	0.22	Very limited Depth to bedrock Slope Droughty	1.00 1.00 1.00
Rock outcrop-----	30	Not rated		Not rated		Not rated	
336: Whitecross, south aspect-----	50	Very limited Slope Too stony	1.00 1.00	Very limited Too stony Slope	1.00 1.00	Very limited Depth to bedrock Slope Droughty	1.00 1.00 1.00
Rock outcrop-----	25	Not rated		Not rated		Not rated	
337: Whitecross-----	60	Very limited Slope Too stony	1.00 1.00	Very limited Slope Too stony	1.00 1.00	Very limited Depth to bedrock Slope Droughty	1.00 1.00 1.00

Table 14.--Recreation--Continued

Map symbol and soil name	Pct. of map unit	Paths and trails		Off-road motorcycle trails		Golf fairways	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
337: Rock outcrop-----	25	Not rated		Not rated		Not rated	
338: Henson-----	80	Somewhat limited Slope	0.32	Not limited		Very limited Slope Droughty	1.00 0.43
339: Henson-----	80	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope Droughty	1.00 0.43
340: Moran-----	80	Somewhat limited Slope	0.32	Not limited		Very limited Slope Droughty	1.00 0.33
341: Moran-----	80	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope Droughty	1.00 0.33
342: Telluride-----	60	Very limited Slope	1.00	Somewhat limited Slope	0.22	Very limited Depth to bedrock Slope Droughty	1.00 1.00 0.92
Rock outcrop-----	20	Not rated		Not rated		Not rated	
343: Telluride-----	60	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Depth to bedrock Slope Droughty	1.00 1.00 0.92
Rock outcrop-----	25	Not rated		Not rated		Not rated	
345: Papaspila-----	85	Not limited		Not limited		Somewhat limited Content of large stones	0.01

Table 14.--Recreation--Continued

Map symbol and soil name	Pct. of map unit	Paths and trails		Off-road motorcycle trails		Golf fairways	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
350: Flygare-----	45	Not limited		Not limited		Somewhat limited Droughty	0.01
Foidel-----	40	Not limited		Not limited		Not limited	
355: Flygare-----	45	Somewhat limited Slope	0.92	Not limited		Very limited Slope Droughty	1.00 0.01
Foidel-----	40	Somewhat limited Slope	0.92	Not limited		Very limited Slope	1.00
360: Blacksnag-----	45	Somewhat limited Content of large stones	0.42	Somewhat limited Content of large stones	0.42	Very limited Content of large stones Droughty Slope	1.00 0.73 0.04
Peeler-----	40	Very limited Water erosion	1.00	Very limited Water erosion	1.00	Somewhat limited Slope	0.04
361: Blacksnag-----	45	Somewhat limited Slope Content of large stones	0.92 0.42	Somewhat limited Content of large stones	0.42	Very limited Slope Content of large stones Droughty	1.00 1.00 0.73
Peeler-----	40	Very limited Water erosion Slope	1.00 0.92	Very limited Water erosion	1.00	Very limited Slope	1.00
374: Mavreeso-----	35	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope Content of large stones	1.00 0.01

Table 14.--Recreation--Continued

Map symbol and soil name	Pct. of map unit	Paths and trails		Off-road motorcycle trails		Golf fairways	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
374: Valto-----	30	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Depth to bedrock Slope Droughty	1.00 1.00 1.00
Rock outcrop-----	20	Not rated		Not rated		Not rated	
375: Needleton-----	55	Not limited		Not limited		Somewhat limited Slope Droughty	0.16 0.01
Snowdon-----	30	Not limited		Not limited		Very limited Depth to bedrock Droughty Slope	0.99 0.99 0.16
376: Needleton-----	80	Very limited Water erosion Slope	1.00 0.92	Very limited Water erosion	1.00	Very limited Slope	1.00
378: Needleton-----	65	Very limited Slope Water erosion	1.00 1.00	Very limited Water erosion Slope	1.00 1.00	Very limited Slope	1.00
Haviland-----	25	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
380: Snowdon-----	50	Somewhat limited Slope	0.50	Not limited		Very limited Slope Depth to bedrock Droughty	1.00 0.99 0.93
Rock outcrop-----	35	Not rated		Not rated		Not rated	
381: Needleton-----	45	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope Droughty	1.00 0.01

Table 14.--Recreation--Continued

Map symbol and soil name	Pct. of map unit	Paths and trails		Off-road motorcycle trails		Golf fairways	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
381: Snowdon-----	30	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope Droughty Depth to bedrock	1.00 1.00 0.99
Rock outcrop-----	15	Not rated		Not rated		Not rated	
382: Needleton-----	50	Somewhat limited Slope	0.92	Not limited		Very limited Slope Droughty	1.00 0.01
Snowdon-----	30	Somewhat limited Slope	0.92	Not limited		Very limited Slope Droughty Depth to bedrock	1.00 1.00 0.99
383: Haviland-----	50	Somewhat limited Slope	0.50	Not limited		Very limited Slope	1.00
Needleton-----	35	Somewhat limited Slope	0.50	Not limited		Very limited Slope Droughty	1.00 0.01
386: Needleton-----	70	Very limited Slope Too stony	1.00 0.76	Very limited Slope Too stony	1.00 0.76	Very limited Slope Droughty	1.00 0.01
387: Frisco-----	50	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
Quazar-----	40	Very limited Slope Content of large stones	1.00 0.61	Very limited Slope Content of large stones	1.00 0.61	Very limited Slope Content of large stones Droughty	1.00 1.00 0.94

Table 14.--Recreation--Continued

Map symbol and soil name	Pct. of map unit	Paths and trails		Off-road motorcycle trails		Golf fairways	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
388: Frisco-----	50	Somewhat limited Slope	0.92	Not limited		Very limited Slope	1.00
Quazar-----	45	Somewhat limited Slope Content of large stones	0.92 0.61	Somewhat limited Content of large stones	0.61	Very limited Slope Content of large stones Droughty	1.00 1.00 0.94
389: Seitz-----	85	Somewhat limited Slope	0.50	Not limited		Very limited Slope	1.00
390: Clayburn-----	40	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
Heisspitz-----	30	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Depth to bedrock Slope Droughty Content of large stones	1.00 1.00 0.88 0.01
391: Runlett-----	50	Somewhat limited Slope	0.18	Not limited		Very limited Slope Depth to bedrock Content of large stones	1.00 0.71 0.01
Sessions-----	30	Somewhat limited Slope	0.18	Not limited		Very limited Slope	1.00
392: Runlett-----	30	Very limited Slope	1.00	Somewhat limited Slope	0.22	Very limited Slope Depth to bedrock Content of large stones	1.00 0.74 0.01

Table 14.--Recreation--Continued

Map symbol and soil name	Pct. of map unit	Paths and trails		Off-road motorcycle trails		Golf fairways	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
392: Needleton-----	30	Very limited Water erosion Slope	1.00 1.00	Very limited Water erosion Slope	1.00 0.22	Very limited Slope	1.00
Sessions-----	20	Very limited Slope	1.00	Somewhat limited Slope	0.22	Very limited Slope	1.00
393: Heisspitz-----	50	Not limited		Not limited		Very limited Depth to bedrock Droughty Slope Content of large stones	1.00 0.88 0.16 0.01
Sessions-----	25	Not limited		Not limited		Somewhat limited Slope	0.16
Rock outcrop-----	20	Not rated		Not rated		Not rated	
394: Clayburn-----	55	Somewhat limited Slope	0.92	Not limited		Very limited Slope	1.00
Heisspitz-----	30	Somewhat limited Slope	0.92	Not limited		Very limited Depth to bedrock Slope Droughty Content of large stones	1.00 1.00 0.88 0.01
395: Scout-----	85	Very limited Water erosion Slope	1.00 0.32	Very limited Water erosion	1.00	Very limited Slope Droughty	1.00 0.09
396: Scout-----	85	Very limited Slope Water erosion	1.00 1.00	Very limited Water erosion Slope	1.00 1.00	Very limited Slope Droughty	1.00 0.09

Table 14.--Recreation--Continued

Map symbol and soil name	Pct. of map unit	Paths and trails		Off-road motorcycle trails		Golf fairways	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
399: Kite-----	40	Somewhat limited Slope	0.92	Not limited		Very limited Depth to bedrock Slope Droughty	1.00 1.00 0.95
Rock outcrop-----	35	Not rated		Not rated		Not rated	
450: Lostlake-----	45	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Depth to bedrock Slope Droughty	1.00 1.00 0.95
Rock outcrop-----	35	Not rated		Not rated		Not rated	
452: Dystrocryepts-----	55	Somewhat limited Slope	0.92	Not limited		Very limited Depth to bedrock Slope Droughty Gravel content Content of large stones	1.00 1.00 0.99 0.20 0.01
Rock outcrop-----	35	Not rated		Not rated		Not rated	
453: Sig-----	40	Very limited Slope Too stony	1.00 0.76	Somewhat limited Too stony Slope	0.76 0.22	Very limited Depth to bedrock Slope Droughty	1.00 1.00 1.00
Rock outcrop-----	30	Not rated		Not rated		Not rated	
Snowdon-----	20	Very limited Slope Too stony	1.00 0.76	Somewhat limited Too stony Slope	0.76 0.22	Very limited Slope Droughty Depth to bedrock	1.00 1.00 0.99

Table 14.--Recreation--Continued

Map symbol and soil name	Pct. of map unit	Paths and trails		Off-road motorcycle trails		Golf fairways	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
454: Snowdon-----	35	Very limited Slope Too stony	1.00 0.76	Somewhat limited Too stony Slope	0.76 0.22	Very limited Slope Droughty Depth to bedrock	1.00 1.00 0.99
Sig-----	30	Very limited Slope Too stony	1.00 0.76	Somewhat limited Too stony Slope	0.76 0.22	Very limited Depth to bedrock Slope Droughty	1.00 1.00 1.00
Rock outcrop-----	25	Not rated		Not rated		Not rated	
493: Badland-----	90	Not rated		Not rated		Not rated	
494: Pits, gravel-----	100	Not rated		Not rated		Not rated	
495: Riverwash-----	85	Not rated		Not rated		Not rated	
496: Rock outcrop-----	70	Not rated		Not rated		Not rated	
497: Rubble land-----	80	Not rated		Not rated		Not rated	
498: Slickens-----	80	Not rated		Not rated		Not rated	
499: Water-----	100	Not rated		Not rated		Not rated	
500: Dolores-----	50	Somewhat limited Too stony	0.76	Somewhat limited Too stony	0.76	Somewhat limited Droughty	0.16
Fivepine-----	35	Somewhat limited Too stony Content of large stones	0.76 0.08	Somewhat limited Too stony Content of large stones	0.76 0.08	Very limited Depth to bedrock Droughty Content of large stones	1.00 1.00 1.00

Table 14.--Recreation--Continued

Map symbol and soil name	Pct. of map unit	Paths and trails		Off-road motorcycle trails		Golf fairways	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
501: Fivepine-----	60	Somewhat limited Too stony Content of large stones	0.76 0.08	Somewhat limited Too stony Content of large stones	0.76 0.08	Very limited Depth to bedrock Droughty Content of large stones	1.00 1.00 1.00
Nortez-----	25	Not limited		Not limited		Somewhat limited Depth to bedrock	0.29
503: Ormiston-----	50	Somewhat limited Too stony	0.76	Somewhat limited Too stony	0.76	Somewhat limited Content of large stones	0.03
Fivepine-----	35	Somewhat limited Too stony Content of large stones	0.76 0.08	Somewhat limited Too stony Content of large stones	0.76 0.08	Very limited Depth to bedrock Droughty Content of large stones	1.00 1.00 1.00
504: Jemco-----	40	Not limited		Not limited		Somewhat limited Depth to bedrock	0.01
Detra-----	30	Not limited		Not limited		Not limited	
Beje-----	20	Not limited		Not limited		Very limited Depth to bedrock Droughty Content of large stones	1.00 0.95 0.01
505: Moento-----	80	Not limited		Not limited		Somewhat limited Depth to bedrock	0.06
506: Moento-----	35	Not limited		Not limited		Somewhat limited Depth to bedrock	0.06
Detra-----	30	Not limited		Not limited		Somewhat limited Slope	0.04

Table 14.--Recreation--Continued

Map symbol and soil name	Pct. of map unit	Paths and trails		Off-road motorcycle trails		Golf fairways	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
506: Jemco-----	20	Not limited		Not limited		Somewhat limited Depth to bedrock	0.01
508: Herm-----	50	Not limited		Not limited		Not limited	
Pagoda-----	35	Not limited		Not limited		Not limited	
509: Burnson, dry-----	80	Not limited		Not limited		Not limited	
510: Jemco-----	60	Not limited		Not limited		Somewhat limited Depth to bedrock	0.01
Moento-----	25	Not limited		Not limited		Somewhat limited Depth to bedrock	0.06
511: Granath-----	50	Not limited		Not limited		Not limited	
Fughes-----	35	Not limited		Not limited		Not limited	
512: Wetherill-----	85	Somewhat limited Dusty	0.50	Somewhat limited Dusty	0.50	Not limited	
513: Maudrey-----	50	Not limited		Not limited		Not limited	
Tombac-----	35	Not limited		Not limited		Not limited	
525: Arabrab-----	85	Not limited		Not limited		Very limited Depth to bedrock Droughty	1.00 0.86
526: Lonecone-----	80	Not limited		Not limited		Somewhat limited Depth to bedrock	0.46

Table 14.--Recreation--Continued

Map symbol and soil name	Pct. of map unit	Paths and trails		Off-road motorcycle trails		Golf fairways	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
527: Ormiston-----	50	Somewhat limited Too stony	0.76	Somewhat limited Too stony	0.76	Very limited Slope Content of large stones	1.00 0.03
Beje-----	35	Somewhat limited Too stony Slope	0.76 0.18	Somewhat limited Too stony	0.76	Very limited Depth to bedrock Slope Droughty Content of large stones	1.00 1.00 0.95 0.01
552: Burnson-----	80	Not limited		Not limited		Not limited	
553: Burnson-----	50	Somewhat limited Slope	0.92	Not limited		Very limited Slope	1.00
Herm-----	30	Somewhat limited Slope	0.92	Not limited		Very limited Slope	1.00
571: Mancos-----	40	Not limited		Not limited		Somewhat limited Depth to bedrock	0.16
Skisams-----	35	Not limited		Not limited		Very limited Depth to bedrock Droughty	1.00 1.00
Skutum-----	20	Not limited		Not limited		Not limited	
572: Sudduth-----	85	Not limited		Not limited		Somewhat limited Content of large stones	0.01
600: Valto-----	50	Very limited Slope	1.00	Somewhat limited Slope	0.96	Very limited Depth to bedrock Droughty Slope	1.00 1.00 1.00

Table 14.--Recreation--Continued

Map symbol and soil name	Pct. of map unit	Paths and trails		Off-road motorcycle trails		Golf fairways	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
600: Rock outcrop-----	35	Not rated		Not rated		Not rated	
601: Weminuche-----	85	Very limited Slope Water erosion	1.00 1.00	Very limited Water erosion Slope	1.00 1.00	Very limited Slope	1.00
602: Weminuche-----	85	Very limited Water erosion Slope	1.00 0.18	Very limited Water erosion	1.00	Very limited Slope	1.00
603: Weminuche-----	55	Very limited Water erosion Slope	1.00 1.00	Very limited Water erosion Slope	1.00 0.96	Very limited Slope	1.00
Anvik-----	25	Very limited Slope	1.00	Somewhat limited Slope	0.96	Very limited Slope	1.00
605: Nordicol-----	80	Somewhat limited Slope	0.01	Not limited		Very limited Slope Droughty	1.00 0.07
606: Snowdon-----	50	Very limited Slope Too stony	1.00 1.00	Very limited Slope Too stony	1.00 1.00	Very limited Slope Depth to bedrock Droughty	1.00 0.99 0.95
Needleton-----	35	Very limited Slope Too stony	1.00 1.00	Very limited Slope Too stony	1.00 1.00	Very limited Slope Droughty	1.00 0.01
607: Graysill-----	45	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope Depth to bedrock	1.00 0.03

Table 14.--Recreation--Continued

Map symbol and soil name	Pct. of map unit	Paths and trails		Off-road motorcycle trails		Golf fairways	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
607: Scotch-----	35	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Depth to bedrock Slope Droughty	1.00 1.00 0.49
608: Scotch-----	45	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Depth to bedrock Slope Droughty	1.00 1.00 0.49
Graysill-----	35	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope Depth to bedrock	1.00 0.03
609: Hourglass-----	50	Somewhat limited Slope	0.18	Not limited		Very limited Slope	1.00
Wander-----	35	Somewhat limited Content of large stones Slope	0.61 0.18	Somewhat limited Content of large stones	0.61	Very limited Content of large stones Slope Droughty	1.00 1.00 0.16
610: Wander-----	45	Very limited Slope Too stony Content of large stones	1.00 1.00 0.61	Very limited Too stony Slope Content of large stones	1.00 1.00 0.61	Very limited Slope Content of large stones Droughty	1.00 1.00 0.16
Hotter-----	30	Very limited Slope Too stony Content of large stones	1.00 1.00 0.82	Very limited Too stony Slope Content of large stones	1.00 1.00 0.82	Very limited Depth to bedrock Slope Droughty Content of large stones	1.00 1.00 1.00 1.00
Hourglass-----	15	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00

Table 14.--Recreation--Continued

Map symbol and soil name	Pct. of map unit	Paths and trails		Off-road motorcycle trails		Golf fairways	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
611: Goldbug-----	85	Very limited Too stony Slope Too sandy	1.00 0.18 0.01	Very limited Too stony Too sandy	1.00 0.01	Very limited Slope Droughty	1.00 0.01
612: Haviland-----	50	Somewhat limited Slope	0.18	Not limited		Very limited Slope	1.00
Graysill-----	35	Somewhat limited Slope	0.18	Not limited		Very limited Slope Depth to bedrock	1.00 0.03
615: Haviland-----	75	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
616: Fortlewis-----	85	Not limited		Not limited		Somewhat limited Depth to bedrock	0.01
617: Shawa-----	85	Not limited		Not limited		Somewhat limited Slope	0.74
618: Nordicol-----	50	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope Droughty	1.00 0.02
Valto-----	35	Very limited Slope	1.00	Somewhat limited Slope	0.94	Very limited Depth to bedrock Slope Droughty	1.00 1.00 1.00
619: Nordicol-----	80	Very limited Slope Too stony	1.00 1.00	Very limited Slope Too stony	1.00 1.00	Very limited Slope Droughty	1.00 0.11

Table 14.--Recreation--Continued

Map symbol and soil name	Pct. of map unit	Paths and trails		Off-road motorcycle trails		Golf fairways	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
620: Caviness-----	90	Somewhat limited Slope	0.92	Not limited		Very limited Slope	1.00
621: Granturk-----	85	Not limited		Not limited		Very limited Depth to bedrock Slope Droughty	1.00 1.00 0.46
622: Granturk-----	60	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Depth to bedrock Slope Droughty	1.00 1.00 0.46
Rock outcrop-----	30	Not rated		Not rated		Not rated	
623: Chris-----	50	Very limited Slope	1.00	Somewhat limited Slope	0.78	Very limited Slope	1.00
Nordicol-----	40	Somewhat limited Slope	0.92	Not limited		Very limited Slope Droughty	1.00 0.02
699: Haplocryolls-----	40	Very limited Slope	1.00	Somewhat limited Slope	0.78	Very limited Slope Droughty	1.00 0.06
Rubble land-----	40	Not rated		Not rated		Not rated	
700: Bradfield-----	90	Not limited		Not limited		Not limited	
703: Narraguinnep-----	80	Very limited Slope	1.00	Somewhat limited Slope	0.44	Very limited Slope	1.00
704: Gladlow-----	30	Not limited		Not limited		Somewhat limited Slope	0.04

Table 14.--Recreation--Continued

Map symbol and soil name	Pct. of map unit	Paths and trails		Off-road motorcycle trails		Golf fairways	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
704: Rock outcrop-----	30	Not rated		Not rated		Not rated	
Ruko-----	20	Not limited		Not limited		Very limited Depth to bedrock Droughty Slope	1.00 0.99 0.04
705: Helmet-----	80	Not limited		Not limited		Not limited	
706: Narraguinnep-----	85	Not limited		Not limited		Somewhat limited Slope	0.16
707: Teedown-----	50	Not limited		Not limited		Somewhat limited Slope Content of large stones	0.16 0.03
Nordicol-----	35	Not limited		Not limited		Somewhat limited Slope	0.16
708: Helmet-----	80	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
709: Teedown-----	85	Not limited		Not limited		Somewhat limited Content of large stones	0.03
710: Sili-----	50	Not limited		Not limited		Somewhat limited Slope	0.16

Table 14.--Recreation--Continued

Map symbol and soil name	Pct. of map unit	Paths and trails		Off-road motorcycle trails		Golf fairways	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
710: Zigzag-----	30	Not limited		Not limited		Very limited Depth to bedrock Droughty Gravel content Slope Content of large stones	1.00 1.00 0.16 0.16 0.03
711: Sili-----	85	Not limited		Not limited		Somewhat limited Slope	0.16
714: Helmet-----	80	Somewhat limited Slope	0.92	Not limited		Very limited Slope	1.00
718: Narraguinnep-----	50	Somewhat limited Slope	0.18	Not limited		Very limited Slope	1.00
Gladlow-----	40	Somewhat limited Slope	0.18	Not limited		Very limited Slope	1.00
720: Zigzag-----	45	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Depth to bedrock Slope Droughty Gravel content Content of large stones	1.00 1.00 1.00 0.16 0.03
Rock outcrop-----	35	Not rated		Not rated		Not rated	
723: Zigzag-----	50	Somewhat limited Slope	0.92	Not limited		Very limited Depth to bedrock Slope Droughty Gravel content Content of large stones	1.00 1.00 1.00 0.16 0.03

Table 14.--Recreation--Continued

Map symbol and soil name	Pct. of map unit	Paths and trails		Off-road motorcycle trails		Golf fairways	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
723: Rock outcrop-----	40	Not rated		Not rated		Not rated	
725: Shawa-----	85	Very limited Slope	1.00	Not limited		Very limited Slope	1.00
727: Teedown-----	50	Somewhat limited Slope	0.92	Not limited		Very limited Slope Content of large stones	1.00 0.03
Nordicol-----	35	Somewhat limited Slope	0.32	Not limited		Very limited Slope	1.00
730: Baird Hollow-----	35	Somewhat limited Slope	0.92	Not limited		Very limited Slope	1.00
Nordicol-----	30	Very limited Slope	1.00	Not limited		Very limited Slope Droughty	1.00 0.07
Ryman-----	25	Somewhat limited Slope	0.92	Not limited		Very limited Slope	1.00
731: Ryman-----	60	Not limited		Not limited		Not limited	
Adel-----	30	Not limited		Not limited		Not limited	
732: Adel-----	50	Somewhat limited Slope	0.18	Not limited		Very limited Slope	1.00
Quazar-----	40	Somewhat limited Content of large stones Slope	0.61 0.32	Somewhat limited Content of large stones	0.61	Very limited Slope Content of large stones Droughty	1.00 1.00 0.94

Table 14.--Recreation--Continued

Map symbol and soil name	Pct. of map unit	Paths and trails		Off-road motorcycle trails		Golf fairways	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
733: Adel-----	70	Not limited		Not limited		Very limited Slope	1.00
Bucklon-----	20	Somewhat limited Slope	0.50	Not limited		Very limited Depth to bedrock Slope Droughty	1.00 1.00 0.96
734: Ryman-----	60	Not limited		Not limited		Not limited	
Clayburn-----	30	Not limited		Not limited		Not limited	
740: Cowtown-----	50	Somewhat limited Slope	0.18	Not limited		Very limited Slope Content of large stones	1.00 0.08
Scout-----	30	Very limited Water erosion Slope	1.00 0.18	Very limited Water erosion	1.00	Very limited Slope Droughty	1.00 0.09
741: Cowtown-----	45	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope Content of large stones	1.00 0.08
Scout-----	35	Very limited Slope Water erosion	1.00 1.00	Very limited Water erosion Slope	1.00 1.00	Very limited Slope Droughty	1.00 0.09
750: Archuleta-----	50	Very limited Slope Too stony Content of large stones	1.00 0.76 0.14	Somewhat limited Slope Too stony Content of large stones	0.99 0.76 0.14	Very limited Depth to bedrock Slope Content of large stones Droughty	1.00 1.00 1.00 0.83

Table 14.--Recreation--Continued

Map symbol and soil name	Pct. of map unit	Paths and trails		Off-road motorcycle trails		Golf fairways	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
750: Sheek-----	35	Very limited Slope Too stony	1.00 0.76	Somewhat limited Slope Too stony	0.99 0.76	Very limited Slope Droughty	1.00 0.01
801: Fughes-----	50	Very limited Too stony Slope	1.00 0.92	Very limited Too stony	1.00	Very limited Slope Content of large stones	1.00 0.20
Sheek-----	35	Very limited Too stony Slope Content of large stones	1.00 0.92 0.32	Very limited Too stony Content of large stones	1.00 0.32	Very limited Slope Content of large stones	1.00 1.00
802: Argiustolls-----	30	Very limited Slope Too stony	1.00 1.00	Very limited Too stony Slope	1.00 1.00	Very limited Slope	1.00
Haplustalfs-----	30	Very limited Slope Too stony Content of large stones	1.00 1.00 1.00	Very limited Too stony Slope Content of large stones	1.00 1.00 1.00	Very limited Slope Content of large stones Droughty	1.00 1.00 0.09
Rock outcrop-----	25	Not rated		Not rated		Not rated	
804: Wauquie-----	40	Very limited Slope Too stony Content of large stones Dusty	1.00 1.00 0.58 0.50	Very limited Too stony Slope Content of large stones Dusty	1.00 1.00 0.58 0.50	Very limited Slope Content of large stones	1.00 1.00

Table 14.--Recreation--Continued

Map symbol and soil name	Pct. of map unit	Paths and trails		Off-road motorcycle trails		Golf fairways	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
804: Dolcan-----	25	Very limited Slope Too stony Content of large stones	1.00 1.00 0.06	Very limited Too stony Slope Content of large stones	1.00 1.00 0.06	Very limited Depth to bedrock Slope Content of large stones Droughty	1.00 1.00 1.00 0.90
Rock outcrop-----	20	Not rated		Not rated		Not rated	
805: Shawa-----	50	Somewhat limited Slope	0.32	Not limited		Very limited Slope	1.00
Fughes-----	40	Somewhat limited Slope	0.32	Not limited		Very limited Slope	1.00
806: Shawa-----	45	Very limited Slope Too stony	1.00 0.76	Very limited Slope Too stony	1.00 0.76	Very limited Slope	1.00
Fughes-----	35	Very limited Slope Too stony	1.00 0.76	Very limited Slope Too stony	1.00 0.76	Very limited Slope	1.00
809: Argiustolls-----	45	Very limited Slope Too stony	1.00 0.76	Very limited Slope Too stony	1.00 0.76	Very limited Slope	1.00
Haplustalfs-----	40	Very limited Slope Content of large stones Too stony	1.00 0.99 0.76	Very limited Slope Content of large stones Too stony	1.00 0.99 0.76	Very limited Slope Content of large stones Droughty	1.00 1.00 0.09
813: Fughes-----	80	Somewhat limited Slope	0.18	Not limited		Very limited Slope Content of large stones	1.00 0.01

Table 14.--Recreation--Continued

Map symbol and soil name	Pct. of map unit	Paths and trails		Off-road motorcycle trails		Golf fairways	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
814: Leaps-----	50	Not limited		Not limited		Very limited Slope	1.00
Hofly-----	35	Not limited		Not limited		Very limited Slope	1.00
815: Behanco-----	45	Not limited		Not limited		Somewhat limited Droughty	0.03
Powderhorn family---	40	Not limited		Not limited		Not limited	
816: Storm-----	85	Somewhat limited Slope	0.92	Not limited		Very limited Slope Droughty	1.00 0.33
826: Ute-----	50	Somewhat limited Depth to saturated zone	0.99	Somewhat limited Depth to saturated zone	0.99	Very limited Depth to saturated zone	0.99
Frisco-----	40	Not limited		Not limited		Somewhat limited Slope	0.84
830: Dressel-----	55	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope Droughty	1.00 0.01
Jersey-----	30	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope Droughty	1.00 0.02
832: Storm-----	85	Not limited		Not limited		Somewhat limited Droughty	0.33
834: Haycamp-----	60	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00

Table 14.--Recreation--Continued

Map symbol and soil name	Pct. of map unit	Paths and trails		Off-road motorcycle trails		Golf fairways	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
834: Jersey-----	25	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope Droughty	1.00 0.02
835: Brumley-----	85	Not limited		Not limited		Not limited	
860: Granath-----	55	Not limited		Not limited		Not limited	
Nortez-----	30	Not limited		Not limited		Somewhat limited Depth to bedrock	0.29
861: Morapos-----	80	Not limited		Not limited		Not limited	
862: Granath-----	40	Not limited		Not limited		Not limited	
Dolores-----	25	Not limited		Not limited		Somewhat limited Droughty	0.16
Fivepine-----	20	Somewhat limited Too stony Content of large stones	0.76 0.08	Somewhat limited Too stony Content of large stones	0.76 0.08	Very limited Depth to bedrock Droughty Content of large stones	1.00 1.00 1.00
863: Granath-----	40	Not limited		Not limited		Not limited	
Ormiston-----	25	Somewhat limited Too stony	0.76	Somewhat limited Too stony	0.76	Somewhat limited Content of large stones	0.03
Fivepine-----	20	Somewhat limited Too stony Content of large stones	0.76 0.08	Somewhat limited Too stony Content of large stones	0.76 0.08	Very limited Depth to bedrock Droughty Content of large stones	1.00 1.00 1.00

Table 14.--Recreation--Continued

Map symbol and soil name	Pct. of map unit	Paths and trails		Off-road motorcycle trails		Golf fairways	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
890: Tamarron-----	45	Very limited Slope Water erosion	1.00 1.00	Very limited Water erosion Slope	1.00 1.00	Very limited Slope Depth to bedrock	1.00 0.01
Frisco-----	35	Very limited Slope Water erosion	1.00 1.00	Very limited Water erosion Slope	1.00 1.00	Very limited Slope	1.00
891: Tamarron-----	45	Very limited Water erosion Slope	1.00 0.92	Very limited Water erosion	1.00	Very limited Slope Depth to bedrock	1.00 0.01
Frisco-----	40	Very limited Water erosion Slope	1.00 0.92	Very limited Water erosion	1.00	Very limited Slope	1.00
901: Granath-----	45	Not limited		Not limited		Not limited	
Zoltay-----	25	Not limited		Not limited		Not limited	
Nortez-----	20	Not limited		Not limited		Somewhat limited Depth to bedrock	0.29
903: Anvik-----	85	Very limited Slope	1.00	Somewhat limited Slope	0.14	Very limited Slope	1.00
904: Beje-----	85	Not limited		Not limited		Very limited Depth to bedrock Droughty Slope	1.00 0.98 0.96
905: Cryaquolls-----	95	Somewhat limited Depth to saturated zone	0.99	Somewhat limited Depth to saturated zone	0.99	Somewhat limited Depth to saturated zone Flooding Droughty	0.99 0.60 0.01

Table 14.--Recreation--Continued

Map symbol and soil name	Pct. of map unit	Paths and trails		Off-road motorcycle trails		Golf fairways	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
906: Archuleta-----	80	Very limited Water erosion Slope	1.00 1.00	Very limited Water erosion Slope	1.00 0.99	Very limited Depth to bedrock Slope Droughty Content of large stones	1.00 1.00 0.91 0.01
907: Archuleta-----	45	Very limited Water erosion Slope	1.00 1.00	Very limited Water erosion Slope	1.00 0.99	Very limited Depth to bedrock Slope Droughty Content of large stones	1.00 1.00 0.93 0.01
Sanchez-----	30	Very limited Slope Content of large stones	1.00 0.61	Somewhat limited Content of large stones Slope	0.61 0.14	Very limited Depth to bedrock Content of large stones Droughty Slope	1.00 1.00 1.00 1.00
908: Adel-----	85	Somewhat limited Slope	0.18	Not limited		Very limited Slope	1.00
909: Adel-----	90	Very limited Slope	1.00	Somewhat limited Slope	0.56	Very limited Slope	1.00
917: Chris-----	85	Somewhat limited Slope	0.08	Not limited		Very limited Slope	1.00
919: Clayburn-----	90	Not limited		Not limited		Not limited	
920: Clayburn-----	85	Somewhat limited Content of large stones Slope	0.08 0.02	Somewhat limited Content of large stones	0.08	Very limited Content of large stones Slope	1.00 1.00

Table 14.--Recreation--Continued

Map symbol and soil name	Pct. of map unit	Paths and trails		Off-road motorcycle trails		Golf fairways	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
926: Ustolls-----	45	Very limited Slope Content of large stones	1.00 0.32	Very limited Slope Content of large stones	1.00 0.32	Very limited Slope Content of large stones	1.00 1.00
Rock outcrop-----	40	Not rated		Not rated		Not rated	
930: Fortlewis-----	45	Somewhat limited Slope	0.02	Not limited		Very limited Slope Depth to bedrock	1.00 0.01
Rock outcrop-----	35	Not rated		Not rated		Not rated	
934: Ceek-----	85	Very limited Slope	1.00	Not limited		Very limited Slope	1.00
937: Herm-----	85	Somewhat limited Slope	0.02	Not limited		Very limited Slope	1.00
939: Ohwiler-----	90	Not limited		Not limited		Not limited	
940: Horsethief-----	85	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
942: Fivepine-----	50	Not limited		Not limited		Very limited Depth to bedrock Droughty Content of large stones	1.00 1.00 0.03
Pino-----	35	Not limited		Not limited		Somewhat limited Depth to bedrock	0.16

Table 14.--Recreation--Continued

Map symbol and soil name	Pct. of map unit	Paths and trails		Off-road motorcycle trails		Golf fairways	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
945: Nizhoni-----	35	Very limited Slope	1.00	Somewhat limited Slope	0.01	Very limited Depth to bedrock Droughty Slope Content of large stones	1.00 1.00 1.00 0.03
Arabrab-----	30	Not limited		Not limited		Very limited Depth to bedrock Droughty	1.00 0.77
Rock outcrop-----	30	Not rated		Not rated		Not rated	
950: Pescar-----	80	Somewhat limited Depth to saturated zone Flooding	0.86 0.40	Somewhat limited Depth to saturated zone Flooding	0.86 0.40	Very limited Flooding Depth to saturated zone Droughty	1.00 0.94 0.08
951: Endoaquolls-----	90	Somewhat limited Depth to saturated zone Flooding	0.99 0.40	Somewhat limited Depth to saturated zone Flooding	0.99 0.40	Very limited Flooding Depth to saturated zone Droughty Content of large stones	1.00 0.99 0.01 0.01
955: Umbarg-----	35	Not limited		Not limited		Not limited	
Winner-----	30	Somewhat limited Depth to saturated zone	0.86	Somewhat limited Depth to saturated zone	0.86	Somewhat limited Depth to saturated zone Content of large stones	0.94 0.01

Table 14.--Recreation--Continued

Map symbol and soil name	Pct. of map unit	Paths and trails		Off-road motorcycle trails		Golf fairways	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
955: Tesaño-----	20	Not limited		Not limited		Somewhat limited Droughty Gravel content Content of large stones	0.99 0.52 0.11
956: Ormiston-----	50	Very limited Content of large stones Too stony	1.00 0.76	Very limited Content of large stones Too stony	1.00 0.76	Very limited Content of large stones Droughty	1.00 0.01
Granath-----	35	Not limited		Not limited		Not limited	
958: Sheek-----	35	Very limited Slope Too stony	1.00 0.53	Very limited Slope Too stony	1.00 0.53	Very limited Slope	1.00
Archuleta-----	30	Very limited Slope Too stony	1.00 0.53	Very limited Slope Too stony	1.00 0.53	Very limited Depth to bedrock Slope Droughty	1.00 1.00 0.95
Rock outcrop-----	20	Not rated		Not rated		Not rated	
959: Granath-----	90	Not limited		Not limited		Not limited	
965: Narraguinnep-----	55	Not limited		Not limited		Not limited	
Dapoin-----	30	Not limited		Not limited		Not limited	
966: Cryaquepts-----	85	Somewhat limited Depth to saturated zone Flooding	0.98 0.40	Somewhat limited Depth to saturated zone Flooding	0.98 0.40	Very limited Flooding Depth to saturated zone Depth to bedrock Droughty	1.00 0.99 0.65 0.51

Table 14.--Recreation--Continued

Map symbol and soil name	Pct. of map unit	Paths and trails		Off-road motorcycle trails		Golf fairways	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
967: Quazar-----	40	Somewhat limited Content of large stones Slope	0.61 0.18	Somewhat limited Content of large stones	0.61	Very limited Content of large stones Slope Droughty	1.00 1.00 0.94
Cryaquolls-----	25	Somewhat limited Depth to saturated zone	0.99	Somewhat limited Depth to saturated zone	0.99	Somewhat limited Depth to saturated zone Flooding Droughty	0.99 0.60 0.01
Cryohemists-----	20	Very limited Content of organic matter Depth to saturated zone Flooding	1.00 0.99 0.40	Very limited Content of organic matter Depth to saturated zone Flooding	1.00 0.99 0.40	Very limited Flooding Content of organic matter Depth to saturated zone	1.00 1.00 0.99
968: Nortez-----	50	Not limited		Not limited		Somewhat limited Depth to bedrock	0.29
Granath-----	35	Not limited		Not limited		Not limited	
969: Nortez-----	45	Not limited		Not limited		Somewhat limited Depth to bedrock	0.29
Fivepine-----	40	Not limited		Not limited		Very limited Depth to bedrock Droughty Content of large stones	1.00 1.00 0.03
972: Pagoda-----	35	Somewhat limited Slope	0.50	Not limited		Very limited Slope	1.00
Coulterg-----	30	Very limited Slope	1.00	Somewhat limited Slope	0.22	Very limited Slope	1.00

Table 14.--Recreation--Continued

Map symbol and soil name	Pct. of map unit	Paths and trails		Off-road motorcycle trails		Golf fairways	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
972: Wiggler-----	20	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Depth to bedrock Slope Droughty Gravel content	1.00 1.00 1.00 0.14
989: Ryman-----	90	Not limited		Not limited		Somewhat limited Slope	0.04
990: Ryman, warm-----	85	Not limited		Not limited		Somewhat limited Slope	0.04
992: Gladlow-----	85	Not limited		Not limited		Somewhat limited Slope	0.63
996: Zoltay-----	85	Not limited		Not limited		Somewhat limited Slope	0.04
997: Zigzag-----	40	Somewhat limited Slope	0.92	Not limited		Very limited Depth to bedrock Slope Droughty Content of large stones	1.00 1.00 0.80 0.01
Bodot-----	25	Somewhat limited Slope	0.50	Not limited		Very limited Slope Depth to bedrock	1.00 0.01
Rock outcrop-----	25	Not rated		Not rated		Not rated	

Table 15.--Building site development

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the limitation. See text for further explanation of ratings in this table.)

Map symbol and soil name	Pct. of map unit	Dwellings without basements		Dwellings with basements		Small commercial buildings	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
1: Bradfield-----	45	Very limited Shrink-swell	1.00	Very limited Shrink-swell	1.00	Very limited Shrink-swell	1.00
Narraguinnep-----	40	Somewhat limited Shrink-swell	0.99	Somewhat limited Shrink-swell	0.99	Somewhat limited Shrink-swell	0.99
2: Hesperus-----	85	Not limited		Somewhat limited Depth to saturated zone	0.24	Not limited	
10: Lillings-----	85	Very limited Flooding	1.00	Very limited Flooding	1.00	Very limited Flooding	1.00
12: Shawa-----	80	Not limited		Not limited		Not limited	
13: Fughes-----	85	Somewhat limited Shrink-swell	0.50	Very limited Shrink-swell	1.00	Somewhat limited Slope Shrink-swell	0.88 0.50
14: Dalmatian-----	35	Very limited Flooding	1.00	Very limited Flooding Depth to saturated zone	1.00 0.63	Very limited Flooding	1.00
Apmay-----	35	Very limited Flooding Depth to saturated zone	1.00 0.39	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Flooding Depth to saturated zone	1.00 0.39
Schrader-----	15	Very limited Flooding Depth to saturated zone	1.00 0.98	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Flooding Depth to saturated zone	1.00 0.98
15: Umbarg-----	80	Very limited Flooding	1.00	Very limited Flooding Depth to saturated zone	1.00 0.61	Very limited Flooding	1.00

Table 15.--Building site development--Continued

Map symbol and soil name	Pct. of map unit	Dwellings without basements		Dwellings with basements		Small commercial buildings	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
16: Payter-----	85	Somewhat limited		Somewhat limited		Very limited	
		Slope	0.04	Slope	0.04	Slope	1.00
17: Fluvaquents-----	55	Very limited		Very limited		Very limited	
		Flooding Depth to saturated zone	1.00 0.98	Flooding Depth to saturated zone	1.00 1.00	Flooding Depth to saturated zone	1.00 0.98
Haplustolls-----	30	Very limited Flooding	1.00	Very limited Flooding Depth to saturated zone	1.00 0.03	Very limited Flooding	1.00
18: Endoaquolls-----	45	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Flooding Depth to saturated zone	1.00 1.00
Ustifluvents-----	40	Very limited Flooding	1.00	Very limited Flooding Depth to saturated zone	1.00 0.63	Very limited Flooding	1.00
20: Mavreeso-----	75	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
51: Clayburn-----	55	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
Hourglass-----	35	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
52: Ohwiler-----	80	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
53: Cryaquolls-----	50	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Flooding Depth to saturated zone	1.00 1.00

Table 15.--Building site development--Continued

Map symbol and soil name	Pct. of map unit	Dwellings without basements		Dwellings with basements		Small commercial buildings	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
53: Typic Cryaquents----	35	Very limited Flooding Depth to saturated zone Content of large stones	1.00 1.00 0.01	Very limited Flooding Depth to saturated zone Content of large stones	1.00 1.00 0.01	Very limited Flooding Depth to saturated zone Content of large stones	1.00 1.00 0.01
54: Quazar-----	90	Very limited Content of large stones Slope	1.00 0.16	Very limited Content of large stones Slope	1.00 0.16	Very limited Slope Content of large stones	1.00 1.00
56: Typic Cryaquents----	35	Very limited Flooding Depth to saturated zone Content of large stones	1.00 1.00 0.01	Very limited Flooding Depth to saturated zone Content of large stones	1.00 1.00 0.01	Very limited Flooding Depth to saturated zone Content of large stones	1.00 1.00 0.01
Cryaquolls-----	30	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Flooding Depth to saturated zone	1.00 1.00
Cryofibrists-----	25	Very limited Subsidence Flooding Content of organic matter Depth to saturated zone	1.00 1.00 1.00 0.98	Very limited Subsidence Flooding Depth to saturated zone Content of organic matter	1.00 1.00 1.00 1.00	Very limited Subsidence Flooding Content of organic matter Depth to saturated zone	1.00 1.00 1.00 0.98
57: Howardsville-----	80	Very limited Content of large stones	1.00	Very limited Content of large stones	1.00	Very limited Content of large stones	1.00
58: Fughes-----	55	Very limited Shrink-swell Slope	1.00 1.00	Very limited Shrink-swell Slope	1.00 1.00	Very limited Shrink-swell Slope	1.00 1.00
Herm-----	35	Very limited Shrink-swell Slope	1.00 1.00	Very limited Shrink-swell Slope	1.00 1.00	Very limited Shrink-swell Slope	1.00 1.00

Table 15.--Building site development--Continued

Map symbol and soil name	Pct. of map unit	Dwellings without basements		Dwellings with basements		Small commercial buildings	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
59: Fughes-----	45	Very limited Slope Shrink-swell	1.00 1.00	Very limited Slope Shrink-swell	1.00 1.00	Very limited Slope Shrink-swell	1.00 1.00
Herm-----	35	Very limited Slope Shrink-swell	1.00 1.00	Very limited Slope Shrink-swell	1.00 1.00	Very limited Slope Shrink-swell	1.00 1.00
60: Grimes-----	90	Somewhat limited Content of large stones	0.99	Somewhat limited Content of large stones	0.99	Somewhat limited Content of large stones	0.99
110: Sheek-----	45	Very limited Slope Content of large stones	1.00 0.47	Very limited Slope Content of large stones	1.00 0.47	Very limited Slope Content of large stones	1.00 0.47
Ormiston-----	35	Very limited Content of large stones Shrink-swell	0.99 0.50	Very limited Content of large stones Depth to hard bedrock Shrink-swell	0.99 0.88 0.50	Very limited Slope Content of large stones Shrink-swell	1.00 0.99 0.50
111: Fardraw-----	80	Somewhat limited Content of large stones Shrink-swell Slope	0.71 0.50 0.04	Somewhat limited Content of large stones Shrink-swell Slope	0.71 0.50 0.04	Very limited Slope Content of large stones Shrink-swell	1.00 0.71 0.50
113: Dolores-----	80	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope Content of large stones	1.00 1.00
150: Silex-----	70	Very limited Depth to hard bedrock Slope	1.00 1.00	Very limited Depth to hard bedrock Slope	1.00 1.00	Very limited Slope Depth to hard bedrock	1.00 1.00
Rock outcrop-----	20	Not rated		Not rated		Not rated	

Table 15.--Building site development--Continued

Map symbol and soil name	Pct. of map unit	Dwellings without basements		Dwellings with basements		Small commercial buildings	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
151: Frisco-----	80	Very limited Slope Content of large stones	1.00 0.99	Very limited Slope Content of large stones	1.00 0.99	Very limited Slope Content of large stones	1.00 0.99
152: Frisco-----	80	Very limited Slope Content of large stones	1.00 0.99	Very limited Slope Content of large stones	1.00 0.99	Very limited Slope Content of large stones	1.00 0.99
153: Frisco-----	50	Very limited Slope Content of large stones	1.00 0.99	Very limited Slope Content of large stones	1.00 0.99	Very limited Slope Content of large stones	1.00 0.99
Horsethief-----	30	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
154: Frisco-----	60	Very limited Slope Content of large stones	1.00 0.99	Very limited Slope Content of large stones	1.00 0.99	Very limited Slope Content of large stones	1.00 0.99
Horsethief-----	25	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
155: Tuckerville-----	70	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope Content of large stones	1.00 1.00
Rock outcrop-----	20	Not rated		Not rated		Not rated	
156: Sponsor-----	60	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
Tuckerville-----	30	Very limited Slope Content of large stones	1.00 0.99	Very limited Slope Content of large stones	1.00 0.99	Very limited Slope Content of large stones	1.00 0.99

Table 15.--Building site development--Continued

Map symbol and soil name	Pct. of map unit	Dwellings without basements		Dwellings with basements		Small commercial buildings	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
157: Sponsor-----	60	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
Tuckerville-----	30	Very limited Slope Content of large stones	1.00 0.99	Very limited Slope Content of large stones	1.00 0.99	Very limited Slope Content of large stones	1.00 0.99
158: Sponsor-----	60	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
Tuckerville-----	30	Very limited Slope Content of large stones	1.00 0.99	Very limited Slope Content of large stones	1.00 0.99	Very limited Slope Content of large stones	1.00 0.99
159: Tuckerville-----	80	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope Content of large stones	1.00 1.00
160: Anvik-----	40	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
Tuckerville-----	35	Very limited Slope Content of large stones	1.00 0.99	Very limited Slope Content of large stones	1.00 0.99	Very limited Slope Content of large stones	1.00 0.99
161: Needleton-----	85	Very limited Content of large stones Slope	1.00 0.16	Very limited Content of large stones Slope	1.00 0.16	Very limited Slope Content of large stones	1.00 1.00
162: Quazar-----	45	Very limited Slope Content of large stones	1.00 0.99	Very limited Slope Content of large stones	1.00 0.99	Very limited Slope Content of large stones	1.00 0.99
Varden-----	40	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope Content of large stones	1.00 1.00

Table 15.--Building site development--Continued

Map symbol and soil name	Pct. of map unit	Dwellings without basements		Dwellings with basements		Small commercial buildings	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
163: Clayburn-----	50	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
Hourglass-----	35	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
164: Hourglass-----	50	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
Bucklon-----	25	Very limited Slope Depth to soft bedrock	1.00 1.00	Very limited Slope Depth to soft bedrock	1.00 1.00	Very limited Slope Depth to soft bedrock	1.00 1.00
Wander-----	15	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope Content of large stones	1.00 1.00
165: Pinacol-----	85	Very limited Content of large stones Shrink-swell	1.00 0.50	Very limited Content of large stones Shrink-swell	1.00 0.50	Very limited Content of large stones Slope Shrink-swell	1.00 0.88 0.50
166: Pinacol-----	80	Very limited Slope Content of large stones Shrink-swell	1.00 1.00 0.50	Very limited Slope Content of large stones Shrink-swell	1.00 1.00 0.50	Very limited Slope Content of large stones Shrink-swell	1.00 1.00 0.50
250: Snowdon-----	55	Very limited Slope Content of large stones Depth to hard bedrock	1.00 1.00 0.99	Very limited Slope Depth to hard bedrock Content of large stones	1.00 1.00 1.00	Very limited Slope Content of large stones Depth to hard bedrock	1.00 1.00 0.99
Rock outcrop-----	25	Not rated		Not rated		Not rated	
251: Rock outcrop-----	60	Not rated		Not rated		Not rated	

Table 15.--Building site development--Continued

Map symbol and soil name	Pct. of map unit	Dwellings without basements		Dwellings with basements		Small commercial buildings	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
251: Snowdon-----	25	Very limited Slope Content of large stones Depth to hard bedrock	1.00 1.00 0.99	Very limited Slope Depth to hard bedrock Content of large stones	1.00 1.00 1.00	Very limited Slope Content of large stones Depth to hard bedrock	1.00 1.00 0.99
254: Typic Cryorthents---	50	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope Content of large stones	1.00 1.00
Rubble land-----	30	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope Content of large stones	1.00 1.00
330: Needleton-----	85	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope Content of large stones	1.00 1.00
331: Needleton-----	80	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope Content of large stones	1.00 1.00
332: Horsethief-----	55	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope Content of large stones	1.00 1.00
Needleton-----	35	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope Content of large stones	1.00 1.00
333: Henson, south aspect	85	Very limited Content of large stones Slope	1.00 1.00	Very limited Content of large stones Slope	1.00 1.00	Very limited Slope Content of large stones	1.00 1.00

Table 15.--Building site development--Continued

Map symbol and soil name	Pct. of map unit	Dwellings without basements		Dwellings with basements		Small commercial buildings	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
334: Henson, south aspect	80	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope Content of large stones	1.00 1.00
335: Whitcross-----	55	Very limited Slope Depth to hard bedrock Content of large stones	1.00 1.00 1.00	Very limited Slope Depth to hard bedrock Content of large stones	1.00 1.00 1.00	Very limited Slope Depth to hard bedrock Content of large stones	1.00 1.00 1.00
Rock outcrop-----	30	Not rated		Not rated		Not rated	
336: Whitcross, south aspect-----	50	Very limited Slope Depth to hard bedrock Content of large stones	1.00 1.00 1.00	Very limited Slope Depth to hard bedrock Content of large stones	1.00 1.00 1.00	Very limited Slope Depth to hard bedrock Content of large stones	1.00 1.00 1.00
Rock outcrop-----	25	Not rated		Not rated		Not rated	
337: Whitcross-----	60	Very limited Slope Depth to hard bedrock Content of large stones	1.00 1.00 1.00	Very limited Slope Depth to hard bedrock Content of large stones	1.00 1.00 1.00	Very limited Slope Depth to hard bedrock Content of large stones	1.00 1.00 1.00
Rock outcrop-----	25	Not rated		Not rated		Not rated	
338: Henson-----	80	Very limited Content of large stones Slope	1.00 1.00	Very limited Content of large stones Slope	1.00 1.00	Very limited Slope Content of large stones	1.00 1.00
339: Henson-----	80	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope Content of large stones	1.00 1.00

Table 15.--Building site development--Continued

Map symbol and soil name	Pct. of map unit	Dwellings without basements		Dwellings with basements		Small commercial buildings	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
340: Moran-----	80	Very limited Slope Content of large stones	1.00 0.99	Very limited Slope Content of large stones	1.00 0.99	Very limited Slope Content of large stones	1.00 0.99
341: Moran-----	80	Very limited Slope Content of large stones	1.00 0.99	Very limited Slope Content of large stones	1.00 0.99	Very limited Slope Content of large stones	1.00 0.99
342: Telluride-----	60	Very limited Slope Depth to hard bedrock Content of large stones	1.00 1.00 0.43	Very limited Slope Depth to hard bedrock Content of large stones	1.00 1.00 0.43	Very limited Slope Depth to hard bedrock Content of large stones	1.00 1.00 0.43
Rock outcrop-----	20	Not rated		Not rated		Not rated	
343: Telluride-----	60	Very limited Slope Depth to hard bedrock Content of large stones	1.00 1.00 0.43	Very limited Slope Depth to hard bedrock Content of large stones	1.00 1.00 0.43	Very limited Slope Depth to hard bedrock Content of large stones	1.00 1.00 0.43
Rock outcrop-----	25	Not rated		Not rated		Not rated	
345: Papaspila-----	85	Somewhat limited Content of large stones	0.07	Somewhat limited Content of large stones	0.07	Very limited Slope Content of large stones	1.00 0.07
350: Flygare-----	45	Very limited Content of large stones	1.00	Very limited Content of large stones	1.00	Very limited Content of large stones Slope	1.00 1.00
Foidel-----	40	Not limited		Not limited		Very limited Slope	1.00

Table 15.--Building site development--Continued

Map symbol and soil name	Pct. of map unit	Dwellings without basements		Dwellings with basements		Small commercial buildings	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
355: Flygare-----	45	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope Content of large stones	1.00 1.00
Foidel-----	40	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
360: Blacksnag-----	45	Very limited Content of large stones Slope	1.00 0.04	Very limited Content of large stones Slope	1.00 0.04	Very limited Content of large stones Slope	1.00 1.00
Peeler-----	40	Somewhat limited Slope	0.04	Somewhat limited Slope	0.04	Very limited Slope	1.00
361: Blacksnag-----	45	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope Content of large stones	1.00 1.00
Peeler-----	40	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
374: Mavreeso-----	35	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
Valto-----	30	Very limited Slope Depth to hard bedrock Content of large stones	1.00 1.00 1.00	Very limited Slope Depth to hard bedrock Content of large stones	1.00 1.00 1.00	Very limited Slope Depth to hard bedrock Content of large stones	1.00 1.00 1.00
Rock outcrop-----	20	Not rated		Not rated		Not rated	
375: Needleton-----	55	Very limited Content of large stones Slope	1.00 0.16	Very limited Content of large stones Slope	1.00 0.16	Very limited Slope Content of large stones	1.00 1.00

Table 15.--Building site development--Continued

Map symbol and soil name	Pct. of map unit	Dwellings without basements		Dwellings with basements		Small commercial buildings	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
375: Snowdon-----	30	Very limited Content of large stones Depth to hard bedrock Slope	1.00 0.99 0.16	Very limited Depth to hard bedrock Content of large stones Slope	1.00 1.00 0.16	Very limited Slope Content of large stones Depth to hard bedrock	1.00 1.00 0.99
376: Needleton-----	80	Very limited Slope Content of large stones	1.00 0.58	Very limited Slope Content of large stones	1.00 0.58	Very limited Slope Content of large stones	1.00 0.58
378: Needleton-----	65	Very limited Slope Content of large stones	1.00 0.58	Very limited Slope Content of large stones	1.00 0.58	Very limited Slope Content of large stones	1.00 0.58
Haviland-----	25	Very limited Slope Shrink-swell	1.00 0.50	Very limited Slope	1.00	Very limited Slope Shrink-swell	1.00 0.50
380: Snowdon-----	50	Very limited Slope Content of large stones Depth to hard bedrock	1.00 0.99 0.99	Very limited Depth to hard bedrock Slope Content of large stones	1.00 1.00 0.99	Very limited Slope Content of large stones Depth to hard bedrock	1.00 0.99 0.99
Rock outcrop-----	35	Not rated		Not rated		Not rated	
381: Needleton-----	45	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope Content of large stones	1.00 1.00
Snowdon-----	30	Very limited Slope Content of large stones Depth to hard bedrock	1.00 1.00 0.99	Very limited Slope Depth to hard bedrock Content of large stones	1.00 1.00 1.00	Very limited Slope Content of large stones Depth to hard bedrock	1.00 1.00 0.99
Rock outcrop-----	15	Not rated		Not rated		Not rated	

Table 15.--Building site development--Continued

Map symbol and soil name	Pct. of map unit	Dwellings without basements		Dwellings with basements		Small commercial buildings	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
382: Needleton-----	50	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope Content of large stones	1.00 1.00
Snowdon-----	30	Very limited Slope Content of large stones Depth to hard bedrock	1.00 1.00 0.99	Very limited Slope Depth to hard bedrock Content of large stones	1.00 1.00 1.00	Very limited Slope Content of large stones Depth to hard bedrock	1.00 1.00 0.99
383: Haviland-----	50	Very limited Slope Shrink-swell	1.00 0.50	Very limited Slope	1.00	Very limited Slope Shrink-swell	1.00 0.50
Needleton-----	35	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope Content of large stones	1.00 1.00
386: Needleton-----	70	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope Content of large stones	1.00 1.00
387: Frisco-----	50	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope Content of large stones	1.00 1.00
Quazar-----	40	Very limited Slope Content of large stones	1.00 0.97	Very limited Slope Content of large stones	1.00 0.97	Very limited Slope Content of large stones	1.00 0.97
388: Frisco-----	50	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope Content of large stones	1.00 1.00
Quazar-----	45	Very limited Slope Content of large stones	1.00 0.97	Very limited Slope Content of large stones	1.00 0.97	Very limited Slope Content of large stones	1.00 0.97

Table 15.--Building site development--Continued

Map symbol and soil name	Pct. of map unit	Dwellings without basements		Dwellings with basements		Small commercial buildings	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
389: Seitz-----	85	Very limited Content of large stones Slope Shrink-swell	1.00 1.00 0.50	Very limited Content of large stones Slope Shrink-swell	1.00 1.00 0.50	Very limited Slope Content of large stones Shrink-swell	1.00 1.00 0.50
390: Clayburn-----	40	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
Heisspitz-----	30	Very limited Slope Depth to hard bedrock	1.00 1.00	Very limited Slope Depth to hard bedrock	1.00 1.00	Very limited Slope Depth to hard bedrock	1.00 1.00
391: Runlett-----	50	Very limited Shrink-swell Slope Depth to hard bedrock	1.00 1.00 0.71	Very limited Shrink-swell Depth to hard bedrock Slope	1.00 1.00 1.00	Very limited Shrink-swell Slope Depth to hard bedrock	1.00 1.00 0.71
Sessions-----	30	Very limited Slope Shrink-swell	1.00 0.50	Very limited Slope Shrink-swell	1.00 0.50	Very limited Slope Shrink-swell	1.00 0.50
392: Runlett-----	30	Very limited Slope Shrink-swell Depth to hard bedrock	1.00 1.00 0.74	Very limited Slope Shrink-swell Depth to hard bedrock	1.00 1.00 1.00	Very limited Slope Shrink-swell Depth to hard bedrock	1.00 1.00 0.74
Needleton-----	30	Very limited Slope Content of large stones	1.00 0.58	Very limited Slope Content of large stones	1.00 0.58	Very limited Slope Content of large stones	1.00 0.58
Sessions-----	20	Very limited Slope Shrink-swell	1.00 0.50	Very limited Slope Shrink-swell	1.00 0.50	Very limited Slope Shrink-swell	1.00 0.50
393: Heisspitz-----	50	Very limited Depth to hard bedrock Slope	1.00 0.16	Very limited Depth to hard bedrock Slope	1.00 0.16	Very limited Depth to hard bedrock Slope	1.00 1.00

Table 15.--Building site development--Continued

Map symbol and soil name	Pct. of map unit	Dwellings without basements		Dwellings with basements		Small commercial buildings	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
393: Sessions-----	25	Somewhat limited Shrink-swell Slope	0.50 0.16	Somewhat limited Shrink-swell Slope	0.50 0.16	Very limited Slope Shrink-swell	1.00 0.50
Rock outcrop-----	20	Not rated		Not rated		Not rated	
394: Clayburn-----	55	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
Heisspitz-----	30	Very limited Slope Depth to hard bedrock	1.00 1.00	Very limited Slope Depth to hard bedrock	1.00 1.00	Very limited Slope Depth to hard bedrock	1.00 1.00
395: Scout-----	85	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope Content of large stones	1.00 1.00
396: Scout-----	85	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope Content of large stones	1.00 1.00
399: Kite-----	40	Very limited Slope Depth to hard bedrock	1.00 1.00	Very limited Slope Depth to hard bedrock	1.00 1.00	Very limited Slope Depth to hard bedrock	1.00 1.00
Rock outcrop-----	35	Not rated		Not rated		Not rated	
450: Lostlake-----	45	Very limited Slope Depth to hard bedrock	1.00 1.00	Very limited Slope Depth to hard bedrock	1.00 1.00	Very limited Slope Depth to hard bedrock	1.00 1.00
Rock outcrop-----	35	Not rated		Not rated		Not rated	
452: Dystrocryepts-----	55	Very limited Slope Depth to hard bedrock	1.00 1.00	Very limited Slope Depth to hard bedrock	1.00 1.00	Very limited Slope Depth to hard bedrock	1.00 1.00

Table 15.--Building site development--Continued

Map symbol and soil name	Pct. of map unit	Dwellings without basements		Dwellings with basements		Small commercial buildings	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
452: Rock outcrop-----	35	Not rated		Not rated		Not rated	
453: Sig-----	40	Very limited Slope Depth to hard bedrock	1.00 1.00	Very limited Slope Depth to hard bedrock	1.00 1.00	Very limited Slope Depth to hard bedrock	1.00 1.00
Rock outcrop-----	30	Not rated		Not rated		Not rated	
Snowdon-----	20	Very limited Slope Content of large stones Depth to hard bedrock	1.00 1.00 0.99	Very limited Slope Depth to hard bedrock Content of large stones	1.00 1.00 1.00	Very limited Slope Content of large stones Depth to hard bedrock	1.00 1.00 0.99
454: Snowdon-----	35	Very limited Slope Content of large stones Depth to hard bedrock	1.00 1.00 0.99	Very limited Slope Depth to hard bedrock Content of large stones	1.00 1.00 1.00	Very limited Slope Content of large stones Depth to hard bedrock	1.00 1.00 0.99
Sig-----	30	Very limited Slope Depth to hard bedrock	1.00 1.00	Very limited Slope Depth to hard bedrock	1.00 1.00	Very limited Slope Depth to hard bedrock	1.00 1.00
Rock outcrop-----	25	Not rated		Not rated		Not rated	
493: Badland-----	90	Not rated		Not rated		Not rated	
494: Pits, gravel-----	100	Not rated		Not rated		Not rated	
495: Riverwash-----	85	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Flooding Depth to saturated zone	1.00 1.00
496: Rock outcrop-----	70	Not rated		Not rated		Not rated	

Table 15.--Building site development--Continued

Map symbol and soil name	Pct. of map unit	Dwellings without basements		Dwellings with basements		Small commercial buildings	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
497: Rubble land-----	80	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope Content of large stones	1.00 1.00
498: Slickens-----	80	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
499: Water-----	100	Not rated		Not rated		Not rated	
500: Dolores-----	50	Very limited Content of large stones	1.00	Very limited Content of large stones	1.00	Very limited Slope Content of large stones	1.00 1.00
Fivepine-----	35	Very limited Depth to hard bedrock Shrink-swell Content of large stones	1.00 0.50 0.32	Very limited Depth to hard bedrock Shrink-swell Content of large stones	1.00 0.50 0.32	Very limited Depth to hard bedrock Slope Shrink-swell Content of large stones	1.00 1.00 0.50 0.32
501: Fivepine-----	60	Very limited Depth to hard bedrock Shrink-swell Content of large stones	1.00 0.50 0.32	Very limited Depth to hard bedrock Shrink-swell Content of large stones	1.00 0.50 0.32	Very limited Depth to hard bedrock Slope Shrink-swell Content of large stones	1.00 1.00 0.50 0.32
Nortez-----	25	Very limited Shrink-swell Depth to hard bedrock	1.00 0.29	Very limited Shrink-swell Depth to hard bedrock	1.00 1.00	Very limited Shrink-swell Slope Depth to hard bedrock	1.00 1.00 0.29
503: Ormiston-----	50	Very limited Content of large stones Shrink-swell	1.00 0.50	Very limited Content of large stones Depth to hard bedrock Shrink-swell	1.00 0.88 0.50	Very limited Content of large stones Slope Shrink-swell	1.00 1.00 0.50

Table 15.--Building site development--Continued

Map symbol and soil name	Pct. of map unit	Dwellings without basements		Dwellings with basements		Small commercial buildings	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
503: Fivepine-----	35	Very limited Depth to hard bedrock Shrink-swell Content of large stones	1.00 0.50 0.32	Very limited Depth to hard bedrock Shrink-swell Content of large stones	1.00 0.50 0.32	Very limited Depth to hard bedrock Slope Shrink-swell Content of large stones	1.00 1.00 0.50 0.32
504: Jemco-----	40	Somewhat limited Depth to hard bedrock	0.01	Very limited Depth to hard bedrock	1.00	Very limited Slope Depth to hard bedrock	1.00 0.01
Detra-----	30	Not limited		Somewhat limited Depth to hard bedrock	0.02	Very limited Slope	1.00
Beje-----	20	Very limited Depth to hard bedrock	1.00	Very limited Depth to hard bedrock	1.00	Very limited Depth to hard bedrock Slope	1.00 1.00
505: Moento-----	80	Somewhat limited Depth to hard bedrock	0.06	Very limited Depth to hard bedrock	1.00	Very limited Slope Depth to hard bedrock	1.00 0.06
506: Moento-----	35	Somewhat limited Shrink-swell Depth to hard bedrock	0.50 0.06	Very limited Depth to hard bedrock Shrink-swell	1.00 0.50	Very limited Slope Shrink-swell Depth to hard bedrock	1.00 0.50 0.06
Detra-----	30	Somewhat limited Slope	0.04	Somewhat limited Slope Depth to hard bedrock	0.04 0.02	Very limited Slope	1.00
Jemco-----	20	Somewhat limited Depth to hard bedrock	0.01	Very limited Depth to hard bedrock	1.00	Very limited Slope Depth to hard bedrock	1.00 0.01

Table 15.--Building site development--Continued

Map symbol and soil name	Pct. of map unit	Dwellings without basements		Dwellings with basements		Small commercial buildings	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
508: Herm-----	50	Very limited Shrink-swell	1.00	Very limited Shrink-swell	1.00	Very limited Shrink-swell Slope	1.00 1.00
Pagoda-----	35	Very limited Shrink-swell	1.00	Very limited Shrink-swell	1.00	Very limited Shrink-swell Slope	1.00 1.00
509: Burnson, dry-----	80	Very limited Shrink-swell	1.00	Very limited Shrink-swell Depth to hard bedrock	1.00 0.88	Very limited Shrink-swell Slope	1.00 1.00
510: Jemco-----	60	Somewhat limited Depth to hard bedrock	0.01	Very limited Depth to hard bedrock	1.00	Very limited Slope Depth to hard bedrock	1.00 0.01
Moento-----	25	Somewhat limited Depth to hard bedrock	0.06	Very limited Depth to hard bedrock	1.00	Very limited Slope Depth to hard bedrock	1.00 0.06
511: Granath-----	50	Not limited		Not limited		Very limited Slope	1.00
Fughes-----	35	Somewhat limited Shrink-swell	0.50	Very limited Shrink-swell	1.00	Very limited Slope Shrink-swell	1.00 0.50
512: Wetherill-----	85	Somewhat limited Shrink-swell	0.50	Somewhat limited Shrink-swell	0.50	Somewhat limited Shrink-swell	0.50
513: Maudrey-----	50	Very limited Shrink-swell	1.00	Very limited Shrink-swell	1.00	Very limited Shrink-swell Slope	1.00 1.00
Tombac-----	35	Somewhat limited Shrink-swell	0.50	Somewhat limited Shrink-swell	0.50	Somewhat limited Slope Shrink-swell	0.97 0.50

Table 15.--Building site development--Continued

Map symbol and soil name	Pct. of map unit	Dwellings without basements		Dwellings with basements		Small commercial buildings	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
525: Arabrab-----	85	Very limited Depth to hard bedrock	1.00	Very limited Depth to hard bedrock	1.00	Very limited Depth to hard bedrock Slope	1.00 1.00
526: Lonecone-----	80	Not limited		Somewhat limited Depth to soft bedrock	0.46	Not limited	
527: Ormiston-----	50	Very limited Content of large stones Slope Shrink-swell	1.00 1.00 0.50	Very limited Content of large stones Slope Depth to hard bedrock Shrink-swell	1.00 1.00 0.88 0.50	Very limited Slope Content of large stones Shrink-swell	1.00 1.00 0.50
Beje-----	35	Very limited Depth to hard bedrock Slope	1.00 1.00	Very limited Depth to hard bedrock Slope	1.00 1.00	Very limited Depth to hard bedrock Slope	1.00 1.00
552: Burnson-----	80	Very limited Shrink-swell	1.00	Very limited Shrink-swell Depth to hard bedrock	1.00 0.88	Very limited Shrink-swell Slope	1.00 1.00
553: Burnson-----	50	Very limited Slope Shrink-swell	1.00 1.00	Very limited Slope Shrink-swell Depth to hard bedrock	1.00 1.00 0.88	Very limited Slope Shrink-swell	1.00 1.00
Herm-----	30	Very limited Slope Shrink-swell	1.00 1.00	Very limited Slope Shrink-swell	1.00 1.00	Very limited Slope Shrink-swell	1.00 1.00
571: Mancos-----	40	Somewhat limited Depth to hard bedrock	0.15	Very limited Depth to hard bedrock	1.00	Somewhat limited Slope Depth to hard bedrock	0.88 0.15

Table 15.--Building site development--Continued

Map symbol and soil name	Pct. of map unit	Dwellings without basements		Dwellings with basements		Small commercial buildings	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
571: Skisams-----	35	Very limited Depth to hard bedrock	1.00	Very limited Depth to hard bedrock	1.00	Very limited Depth to hard bedrock Slope	1.00 1.00
Skutum-----	20	Not limited		Somewhat limited Shrink-swell	0.50	Somewhat limited Slope	0.88
572: Sudduth-----	85	Somewhat limited Shrink-swell	0.50	Somewhat limited Shrink-swell Depth to saturated zone	0.50 0.35	Somewhat limited Slope Shrink-swell	0.88 0.50
600: Valto-----	50	Very limited Depth to hard bedrock Slope Content of large stones	1.00 1.00 1.00	Very limited Depth to hard bedrock Slope Content of large stones	1.00 1.00 1.00	Very limited Slope Depth to hard bedrock Content of large stones	1.00 1.00 1.00
Rock outcrop-----	35	Not rated		Not rated		Not rated	
601: Weminuche-----	85	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
602: Weminuche-----	85	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
603: Weminuche-----	55	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
Anvik-----	25	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
605: Nordicol-----	80	Very limited Content of large stones Slope	1.00 1.00	Very limited Content of large stones Slope	1.00 1.00	Very limited Slope Content of large stones	1.00 1.00

Table 15.--Building site development--Continued

Map symbol and soil name	Pct. of map unit	Dwellings without basements		Dwellings with basements		Small commercial buildings	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
606: Snowdon-----	50	Very limited Slope Content of large stones Depth to hard bedrock	1.00 1.00 0.99	Very limited Slope Depth to hard bedrock Content of large stones	1.00 1.00 1.00	Very limited Slope Content of large stones Depth to hard bedrock	1.00 1.00 0.99
Needleton-----	35	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope Content of large stones	1.00 1.00
607: Graysill-----	45	Very limited Slope Depth to hard bedrock	1.00 0.03	Very limited Slope Depth to hard bedrock	1.00 1.00	Very limited Slope Depth to hard bedrock	1.00 0.03
Scotch-----	35	Very limited Slope Depth to hard bedrock	1.00 1.00	Very limited Slope Depth to hard bedrock	1.00 1.00	Very limited Slope Depth to hard bedrock	1.00 1.00
608: Scotch-----	45	Very limited Slope Depth to hard bedrock	1.00 1.00	Very limited Slope Depth to hard bedrock	1.00 1.00	Very limited Slope Depth to hard bedrock	1.00 1.00
Graysill-----	35	Very limited Slope Depth to hard bedrock	1.00 0.03	Very limited Slope Depth to hard bedrock	1.00 1.00	Very limited Slope Depth to hard bedrock	1.00 0.03
609: Hourglass-----	50	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
Wander-----	35	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope Content of large stones	1.00 1.00
610: Wander-----	45	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope Content of large stones	1.00 1.00

Table 15.--Building site development--Continued

Map symbol and soil name	Pct. of map unit	Dwellings without basements		Dwellings with basements		Small commercial buildings	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
610: Hotter-----	30	Very limited Slope Depth to hard bedrock Content of large stones	1.00 1.00 1.00	Very limited Slope Depth to hard bedrock Content of large stones	1.00 1.00 1.00	Very limited Slope Depth to hard bedrock Content of large stones	1.00 1.00 1.00
Hourglass-----	15	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
611: Goldbug-----	85	Very limited Content of large stones Slope	1.00 1.00	Very limited Content of large stones Slope Shrink-swell	1.00 1.00 0.50	Very limited Content of large stones Slope	1.00 1.00
612: Haviland-----	50	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
Graysill-----	35	Very limited Slope Depth to hard bedrock	1.00 0.03	Very limited Depth to hard bedrock Slope	1.00 1.00	Very limited Slope Depth to hard bedrock	1.00 0.03
615: Haviland-----	75	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
616: Forthlewis-----	85	Somewhat limited Shrink-swell Depth to hard bedrock	0.50 0.01	Very limited Depth to hard bedrock Shrink-swell	1.00 0.50	Very limited Slope Shrink-swell Depth to hard bedrock	1.00 0.50 0.01
617: Shawa-----	85	Somewhat limited Slope	0.74	Somewhat limited Slope	0.74	Very limited Slope	1.00
618: Nordicol-----	50	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope Content of large stones	1.00 1.00

Table 15.--Building site development--Continued

Map symbol and soil name	Pct. of map unit	Dwellings without basements		Dwellings with basements		Small commercial buildings	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
618: Valto-----	35	Very limited Slope Depth to hard bedrock Content of large stones	1.00 1.00 1.00	Very limited Slope Depth to hard bedrock Content of large stones	1.00 1.00 1.00	Very limited Slope Depth to hard bedrock Content of large stones	1.00 1.00 1.00
619: Nordicol-----	80	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope Content of large stones	1.00 1.00
620: Caviness-----	90	Very limited Slope Content of large stones	1.00 0.04	Very limited Slope Shrink-swell Content of large stones Depth to hard bedrock	1.00 1.00 0.04 0.01	Very limited Slope Content of large stones	1.00 0.04
621: Granturk-----	85	Very limited Depth to hard bedrock Slope	1.00 1.00	Very limited Depth to hard bedrock Slope	1.00 1.00	Very limited Depth to hard bedrock Slope	1.00 1.00
622: Granturk-----	60	Very limited Slope Depth to hard bedrock	1.00 1.00	Very limited Slope Depth to hard bedrock	1.00 1.00	Very limited Slope Depth to hard bedrock	1.00 1.00
Rock outcrop-----	30	Not rated		Not rated		Not rated	
623: Chris-----	50	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
Nordicol-----	40	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope Content of large stones	1.00 1.00

Table 15.--Building site development--Continued

Map symbol and soil name	Pct. of map unit	Dwellings without basements		Dwellings with basements		Small commercial buildings	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
699: Haplocryolls-----	40	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope Content of large stones	1.00 1.00
Rubble land-----	40	Very limited Content of large stones Slope	1.00 1.00	Very limited Content of large stones Slope	1.00 1.00	Very limited Slope Content of large stones	1.00 1.00
700: Bradfield-----	90	Very limited Shrink-swell	1.00	Very limited Shrink-swell	1.00	Very limited Shrink-swell	1.00
703: Narraguinnep-----	80	Very limited Slope Shrink-swell	1.00 0.99	Very limited Slope Shrink-swell	1.00 0.99	Very limited Slope Shrink-swell	1.00 0.99
704: Gladlow-----	30	Somewhat limited Shrink-swell Slope	0.50 0.04	Somewhat limited Shrink-swell Slope	0.50 0.04	Very limited Slope Shrink-swell	1.00 0.50
Rock outcrop-----	30	Not rated		Not rated		Not rated	
Ruko-----	20	Somewhat limited Depth to soft bedrock Shrink-swell Slope	1.00 0.50 0.04	Very limited Depth to soft bedrock Shrink-swell Slope	1.00 0.50 0.04	Very limited Depth to soft bedrock Slope Shrink-swell	1.00 1.00 0.50
705: Helmet-----	80	Very limited Shrink-swell	1.00	Very limited Shrink-swell	1.00	Very limited Shrink-swell Slope	1.00 1.00
706: Narraguinnep-----	85	Somewhat limited Shrink-swell Slope	0.99 0.16	Somewhat limited Shrink-swell Slope	0.99 0.16	Very limited Slope Shrink-swell	1.00 0.99
707: Teedown-----	50	Very limited Shrink-swell Slope	1.00 0.16	Somewhat limited Shrink-swell Slope	0.50 0.16	Very limited Shrink-swell Slope	1.00 1.00

Table 15.--Building site development--Continued

Map symbol and soil name	Pct. of map unit	Dwellings without basements		Dwellings with basements		Small commercial buildings	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
707: Nordicol-----	35	Very limited Content of large stones Slope	1.00 0.16	Very limited Content of large stones Slope	1.00 0.16	Very limited Slope Content of large stones	1.00 1.00
708: Helmet-----	80	Very limited Slope Shrink-swell	1.00 1.00	Very limited Slope Shrink-swell	1.00 1.00	Very limited Slope Shrink-swell	1.00 1.00
709: Teedown-----	85	Very limited Shrink-swell	1.00	Somewhat limited Shrink-swell	0.50	Very limited Shrink-swell Slope	1.00 0.88
710: Sili-----	50	Somewhat limited Shrink-swell Slope	0.50 0.16	Somewhat limited Shrink-swell Slope	0.50 0.16	Very limited Slope Shrink-swell	1.00 0.50
Zigzag-----	30	Somewhat limited Depth to soft bedrock Shrink-swell Slope	1.00 0.50 0.16	Very limited Depth to soft bedrock Shrink-swell Slope	1.00 0.50 0.16	Very limited Depth to soft bedrock Slope Shrink-swell	1.00 1.00 0.50
711: Sili-----	85	Somewhat limited Shrink-swell Slope	0.50 0.16	Somewhat limited Shrink-swell Slope	0.50 0.16	Very limited Slope Shrink-swell	1.00 0.50
714: Helmet-----	80	Very limited Slope Shrink-swell	1.00 1.00	Very limited Slope Shrink-swell	1.00 1.00	Very limited Slope Shrink-swell	1.00 1.00
718: Narraguinnep-----	50	Very limited Slope Shrink-swell	1.00 0.99	Very limited Slope Shrink-swell	1.00 0.99	Very limited Slope Shrink-swell	1.00 0.99
Gladlow-----	40	Very limited Slope Shrink-swell	1.00 0.50	Very limited Slope Shrink-swell	1.00 0.50	Very limited Slope Shrink-swell	1.00 0.50

Table 15.--Building site development--Continued

Map symbol and soil name	Pct. of map unit	Dwellings without basements		Dwellings with basements		Small commercial buildings	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
720: Zigzag-----	45	Very limited Slope Depth to soft bedrock Shrink-swell	1.00 1.00 0.50	Very limited Slope Depth to soft bedrock Shrink-swell	1.00 1.00 0.50	Very limited Slope Depth to soft bedrock Shrink-swell	1.00 1.00 0.50
Rock outcrop-----	35	Not rated		Not rated		Not rated	
723: Zigzag-----	50	Very limited Slope Depth to soft bedrock Shrink-swell	1.00 1.00 0.50	Very limited Slope Depth to soft bedrock Shrink-swell	1.00 1.00 0.50	Very limited Slope Depth to soft bedrock Shrink-swell	1.00 1.00 0.50
Rock outcrop-----	40	Not rated		Not rated		Not rated	
725: Shawa-----	85	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
727: Teedown-----	50	Very limited Slope Shrink-swell	1.00 1.00	Very limited Slope Shrink-swell	1.00 0.50	Very limited Slope Shrink-swell	1.00 1.00
Nordicol-----	35	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope Content of large stones	1.00 1.00
730: Baird Hollow-----	35	Very limited Slope Shrink-swell Content of large stones	1.00 0.50 0.01	Very limited Slope Shrink-swell Content of large stones	1.00 0.50 0.01	Very limited Slope Shrink-swell Content of large stones	1.00 0.50 0.01
Nordicol-----	30	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope Content of large stones	1.00 1.00
Ryman-----	25	Very limited Slope Shrink-swell	1.00 0.50	Very limited Slope Shrink-swell	1.00 0.50	Very limited Slope Shrink-swell	1.00 0.50

Table 15.--Building site development--Continued

Map symbol and soil name	Pct. of map unit	Dwellings without basements		Dwellings with basements		Small commercial buildings	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
731: Ryman-----	60	Somewhat limited Shrink-swell	0.50	Somewhat limited Shrink-swell	0.50	Somewhat limited Shrink-swell	0.50
Adel-----	30	Not limited		Not limited		Very limited Slope	1.00
732: Adel-----	50	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
Quazar-----	40	Very limited Slope Content of large stones	1.00 0.97	Very limited Slope Content of large stones	1.00 0.97	Very limited Slope Content of large stones	1.00 0.97
733: Adel-----	70	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
Bucklon-----	20	Very limited Depth to soft bedrock Slope	1.00 1.00	Very limited Depth to soft bedrock Slope	1.00 1.00	Very limited Slope Depth to soft bedrock	1.00 1.00
734: Ryman-----	60	Somewhat limited Shrink-swell	0.50	Somewhat limited Shrink-swell	0.50	Very limited Slope Shrink-swell	1.00 0.50
Clayburn-----	30	Not limited		Not limited		Very limited Slope	1.00
740: Cowtown-----	50	Very limited Shrink-swell Slope	1.00 1.00	Very limited Shrink-swell Slope	1.00 1.00	Very limited Shrink-swell Slope	1.00 1.00
Scout-----	30	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope Content of large stones	1.00 1.00
741: Cowtown-----	45	Very limited Slope Shrink-swell	1.00 1.00	Very limited Slope Shrink-swell	1.00 1.00	Very limited Slope Shrink-swell	1.00 1.00

Table 15.--Building site development--Continued

Map symbol and soil name	Pct. of map unit	Dwellings without basements		Dwellings with basements		Small commercial buildings	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
741: Scout-----	35	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope Content of large stones	1.00 1.00
750: Archuleta-----	50	Very limited Depth to soft bedrock Slope	1.00 1.00	Very limited Depth to soft bedrock Slope	1.00 1.00	Very limited Slope Depth to soft bedrock	1.00 1.00
Sheek-----	35	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope Content of large stones	1.00 1.00
801: Fughes-----	50	Very limited Slope Shrink-swell	1.00 0.50	Very limited Slope Shrink-swell	1.00 1.00	Very limited Slope Shrink-swell	1.00 0.50
Sheek-----	35	Very limited Slope Content of large stones	1.00 0.47	Very limited Slope Content of large stones	1.00 0.47	Very limited Slope Content of large stones	1.00 0.47
802: Argiustolls-----	30	Very limited Slope Content of large stones Shrink-swell	1.00 1.00 0.50	Very limited Slope Content of large stones Shrink-swell	1.00 1.00 0.50	Very limited Slope Content of large stones Shrink-swell	1.00 1.00 0.50
Haplustalfs-----	30	Very limited Slope Content of large stones Shrink-swell	1.00 1.00 0.50	Very limited Slope Content of large stones Shrink-swell	1.00 1.00 0.50	Very limited Slope Content of large stones Shrink-swell	1.00 1.00 0.50
Rock outcrop-----	25	Not rated		Not rated		Not rated	
804: Wauquie-----	40	Very limited Slope Content of large stones	1.00 0.95	Very limited Slope Content of large stones	1.00 0.95	Very limited Slope Content of large stones	1.00 0.95

Table 15.--Building site development--Continued

Map symbol and soil name	Pct. of map unit	Dwellings without basements		Dwellings with basements		Small commercial buildings	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
804: Dolcan-----	25	Very limited Slope Depth to soft bedrock Content of large stones	1.00 1.00 0.01	Very limited Slope Depth to soft bedrock Content of large stones	1.00 1.00 0.01	Very limited Slope Depth to soft bedrock Content of large stones	1.00 1.00 0.01
Rock outcrop-----	20	Not rated		Not rated		Not rated	
805: Shawa-----	50	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
Fughes-----	40	Very limited Slope Shrink-swell	1.00 0.50	Very limited Slope Shrink-swell	1.00 1.00	Very limited Slope Shrink-swell	1.00 0.50
806: Shawa-----	45	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
Fughes-----	35	Very limited Slope Shrink-swell	1.00 0.50	Very limited Slope Shrink-swell	1.00 1.00	Very limited Slope Shrink-swell	1.00 0.50
809: Argiustolls-----	45	Very limited Slope Content of large stones Shrink-swell	1.00 1.00 0.50	Very limited Slope Content of large stones Shrink-swell	1.00 1.00 0.50	Very limited Slope Content of large stones Shrink-swell	1.00 1.00 0.50
Haplustalfs-----	40	Very limited Slope Content of large stones Shrink-swell	1.00 1.00 0.50	Very limited Slope Content of large stones Shrink-swell	1.00 1.00 0.50	Very limited Slope Content of large stones Shrink-swell	1.00 1.00 0.50
813: Fughes-----	80	Very limited Slope Shrink-swell	1.00 0.50	Very limited Shrink-swell Slope	1.00 1.00	Very limited Slope Shrink-swell	1.00 0.50
814: Leaps-----	50	Very limited Shrink-swell Slope	1.00 1.00	Very limited Shrink-swell Slope	1.00 1.00	Very limited Shrink-swell Slope	1.00 1.00

Table 15.--Building site development--Continued

Map symbol and soil name	Pct. of map unit	Dwellings without basements		Dwellings with basements		Small commercial buildings	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
814: Hofly-----	35	Very limited Slope Shrink-swell	1.00 0.50	Very limited Shrink-swell Slope	1.00 1.00	Very limited Slope Shrink-swell	1.00 0.50
815: Behanco-----	45	Not limited		Not limited		Very limited Slope	1.00
Powderhorn family---	40	Not limited		Very limited Shrink-swell	1.00	Very limited Slope	1.00
816: Storm-----	85	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope Content of large stones	1.00 1.00
826: Ute-----	50	Very limited Depth to saturated zone Shrink-swell	1.00 1.00	Very limited Depth to saturated zone Shrink-swell	1.00 1.00	Very limited Depth to saturated zone Shrink-swell	1.00 1.00
Frisco-----	40	Very limited Content of large stones Slope	0.99 0.84	Very limited Content of large stones Slope	0.99 0.84	Very limited Slope Content of large stones	1.00 0.99
830: Dressel-----	55	Very limited Slope Content of large stones	1.00 0.90	Very limited Slope Content of large stones	1.00 0.90	Very limited Slope Content of large stones	1.00 0.90
Jersey-----	30	Very limited Slope Content of large stones Shrink-swell	1.00 1.00 0.50	Very limited Slope Content of large stones Shrink-swell	1.00 1.00 0.50	Very limited Slope Content of large stones Shrink-swell	1.00 1.00 0.50
832: Storm-----	85	Very limited Content of large stones	1.00	Very limited Content of large stones	1.00	Very limited Content of large stones Slope	1.00 0.88

Table 15.--Building site development--Continued

Map symbol and soil name	Pct. of map unit	Dwellings without basements		Dwellings with basements		Small commercial buildings	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
834: Haycamp-----	60	Very limited Slope Shrink-swell	1.00 1.00	Very limited Slope Shrink-swell	1.00 0.50	Very limited Slope Shrink-swell	1.00 1.00
Jersey-----	25	Very limited Slope Content of large stones Shrink-swell	1.00 1.00 0.50	Very limited Slope Content of large stones Shrink-swell	1.00 1.00 0.50	Very limited Slope Content of large stones Shrink-swell	1.00 1.00 0.50
835: Brumley-----	85	Not limited		Not limited		Not limited	
860: Granath-----	55	Not limited		Not limited		Very limited Slope	1.00
Nortez-----	30	Very limited Shrink-swell Depth to hard bedrock	1.00 0.29	Very limited Shrink-swell Depth to hard bedrock	1.00 1.00	Very limited Shrink-swell Slope Depth to hard bedrock	1.00 1.00 0.29
861: Morapos-----	80	Not limited		Not limited		Very limited Slope	1.00
862: Granath-----	40	Not limited		Not limited		Very limited Slope	1.00
Dolores-----	25	Very limited Content of large stones	1.00	Very limited Content of large stones	1.00	Very limited Slope Content of large stones	1.00 1.00
Fivepine-----	20	Very limited Depth to hard bedrock Shrink-swell Content of large stones	1.00 0.50 0.32	Very limited Depth to hard bedrock Shrink-swell Content of large stones	1.00 0.50 0.32	Very limited Depth to hard bedrock Slope Shrink-swell Content of large stones	1.00 1.00 0.50 0.32
863: Granath-----	40	Not limited		Not limited		Very limited Slope	1.00

Table 15.--Building site development--Continued

Map symbol and soil name	Pct. of map unit	Dwellings without basements		Dwellings with basements		Small commercial buildings	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
863: Ormiston-----	25	Very limited Content of large stones Shrink-swell	1.00 0.50	Very limited Content of large stones Depth to hard bedrock Shrink-swell	1.00 0.88 0.50	Very limited Content of large stones Slope Shrink-swell	1.00 1.00 0.50
Fivepine-----	20	Very limited Depth to hard bedrock Shrink-swell Content of large stones	1.00 0.50 0.32	Very limited Depth to hard bedrock Shrink-swell Content of large stones	1.00 0.50 0.32	Very limited Depth to hard bedrock Slope Shrink-swell Content of large stones	1.00 1.00 0.50 0.32
890: Tamarron-----	45	Very limited Slope Content of large stones	1.00 0.93	Very limited Slope Content of large stones Depth to soft bedrock	1.00 0.93 0.01	Very limited Slope Content of large stones	1.00 0.93
Frisco-----	35	Very limited Slope Content of large stones	1.00 0.99	Very limited Slope Content of large stones	1.00 0.99	Very limited Slope Content of large stones	1.00 0.99
891: Tamarron-----	45	Very limited Slope Content of large stones	1.00 0.93	Very limited Slope Content of large stones Depth to soft bedrock	1.00 0.93 0.01	Very limited Slope Content of large stones	1.00 0.93
Frisco-----	40	Very limited Slope Content of large stones	1.00 0.99	Very limited Slope Content of large stones	1.00 0.99	Very limited Slope Content of large stones	1.00 0.99
901: Granath-----	45	Not limited		Not limited		Somewhat limited Slope	0.88
Zoltay-----	25	Somewhat limited Shrink-swell	0.50	Somewhat limited Shrink-swell	0.50	Very limited Slope Shrink-swell	1.00 0.50

Table 15.--Building site development--Continued

Map symbol and soil name	Pct. of map unit	Dwellings without basements		Dwellings with basements		Small commercial buildings	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
901: Nortez-----	20	Very limited Shrink-swell Depth to hard bedrock	1.00 0.29	Very limited Shrink-swell Depth to hard bedrock	1.00 1.00	Very limited Shrink-swell Slope Depth to hard bedrock	1.00 1.00 0.29
903: Anvik-----	85	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
904: Beje-----	85	Very limited Depth to hard bedrock Slope	1.00 0.96	Very limited Depth to hard bedrock Slope	1.00 0.96	Very limited Depth to hard bedrock Slope	1.00 1.00
905: Cryaquolls-----	95	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Flooding Depth to saturated zone	1.00 1.00
906: Archuleta-----	80	Very limited Depth to soft bedrock Slope	1.00 1.00	Very limited Depth to soft bedrock Slope	1.00 1.00	Very limited Slope Depth to soft bedrock	1.00 1.00
907: Archuleta-----	45	Very limited Depth to soft bedrock Slope	1.00 1.00	Very limited Depth to soft bedrock Slope	1.00 1.00	Very limited Slope Depth to soft bedrock	1.00 1.00
Sanchez-----	30	Very limited Depth to hard bedrock Slope Content of large stones	1.00 1.00 1.00	Very limited Depth to hard bedrock Slope Content of large stones	1.00 1.00 1.00	Very limited Slope Depth to hard bedrock Content of large stones	1.00 1.00 1.00
908: Adel-----	85	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
909: Adel-----	90	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00

Table 15.--Building site development--Continued

Map symbol and soil name	Pct. of map unit	Dwellings without basements		Dwellings with basements		Small commercial buildings	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
917: Chris-----	85	Very limited Slope Content of large stones	1.00 0.73	Very limited Slope Content of large stones	1.00 0.73	Very limited Slope Content of large stones	1.00 0.73
919: Clayburn-----	90	Not limited		Not limited		Somewhat limited Slope	0.88
920: Clayburn-----	85	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
926: Ustolls-----	45	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope Content of large stones Shrink-swell	1.00 1.00 0.50	Very limited Slope Content of large stones	1.00 1.00
Rock outcrop-----	40	Not rated		Not rated		Not rated	
930: Fortlewis-----	45	Very limited Slope Shrink-swell Depth to hard bedrock	1.00 0.50 0.01	Very limited Depth to hard bedrock Slope Shrink-swell	1.00 1.00 0.50	Very limited Slope Shrink-swell Depth to hard bedrock	1.00 0.50 0.01
Rock outcrop-----	35	Not rated		Not rated		Not rated	
934: Ceek-----	85	Very limited Shrink-swell Slope Content of large stones	1.00 1.00 0.16	Very limited Shrink-swell Slope Content of large stones	1.00 1.00 0.16	Very limited Slope Shrink-swell Content of large stones	1.00 1.00 0.16
937: Herm-----	85	Very limited Shrink-swell Slope	1.00 1.00	Very limited Shrink-swell Slope	1.00 1.00	Very limited Shrink-swell Slope	1.00 1.00
939: Ohwiler-----	90	Not limited		Not limited		Very limited Slope	1.00

Table 15.--Building site development--Continued

Map symbol and soil name	Pct. of map unit	Dwellings without basements		Dwellings with basements		Small commercial buildings	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
940: Horsethief-----	85	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope Content of large stones	1.00 1.00
942: Fivepine-----	50	Very limited Depth to hard bedrock Shrink-swell Content of large stones	1.00 0.50 0.06	Very limited Depth to hard bedrock Shrink-swell Content of large stones	1.00 0.50 0.06	Very limited Depth to hard bedrock Slope Shrink-swell Content of large stones	1.00 1.00 0.50 0.06
Pino-----	35	Very limited Shrink-swell Depth to hard bedrock	1.00 0.15	Very limited Shrink-swell Depth to hard bedrock	1.00 1.00	Very limited Shrink-swell Slope Depth to hard bedrock	1.00 1.00 0.15
945: Nizhoni-----	35	Very limited Depth to hard bedrock Slope	1.00 1.00	Very limited Depth to hard bedrock Slope	1.00 1.00	Very limited Depth to hard bedrock Slope	1.00 1.00
Arabrab-----	30	Very limited Depth to hard bedrock Shrink-swell	1.00 0.50	Very limited Depth to hard bedrock Shrink-swell	1.00 0.50	Very limited Depth to hard bedrock Slope Shrink-swell	1.00 1.00 0.50
Rock outcrop-----	30	Not rated		Not rated		Not rated	
950: Pescar-----	80	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Flooding Depth to saturated zone	1.00 1.00
951: Endoaquolls-----	90	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Flooding Depth to saturated zone	1.00 1.00

Table 15.--Building site development--Continued

Map symbol and soil name	Pct. of map unit	Dwellings without basements		Dwellings with basements		Small commercial buildings	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
955: Umbarg-----	35	Very limited Flooding	1.00	Very limited Flooding Depth to saturated zone	1.00 0.63	Very limited Flooding	1.00
Winner-----	30	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Flooding Depth to saturated zone	1.00 1.00
Tesajo-----	20	Very limited Flooding Content of large stones	1.00 1.00	Very limited Flooding Content of large stones Depth to saturated zone	1.00 1.00 0.16	Very limited Flooding Content of large stones	1.00 1.00
956: Ormiston-----	50	Very limited Content of large stones Shrink-swell	1.00 0.50	Very limited Content of large stones Depth to hard bedrock Shrink-swell	1.00 0.88 0.50	Very limited Content of large stones Slope Shrink-swell	1.00 0.88 0.50
Granath-----	35	Not limited		Not limited		Somewhat limited Slope	0.88
958: Sheek-----	35	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope Content of large stones	1.00 1.00
Archuleta-----	30	Very limited Slope Depth to soft bedrock Content of large stones	1.00 1.00 0.93	Very limited Slope Depth to soft bedrock Content of large stones	1.00 1.00 0.93	Very limited Slope Depth to soft bedrock Content of large stones	1.00 1.00 0.93
Rock outcrop-----	20	Not rated		Not rated		Not rated	
959: Granath-----	90	Not limited		Not limited		Not limited	

Table 15.--Building site development--Continued

Map symbol and soil name	Pct. of map unit	Dwellings without basements		Dwellings with basements		Small commercial buildings	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
965: Narraguinnep-----	55	Somewhat limited Shrink-swell	0.99	Somewhat limited Shrink-swell	0.99	Very limited Slope Shrink-swell	1.00 0.99
Dapoin-----	30	Somewhat limited Shrink-swell	0.50	Somewhat limited Shrink-swell	0.50	Very limited Slope Shrink-swell	1.00 0.50
966: Cryaquepts-----	85	Very limited Flooding Depth to saturated zone Depth to hard bedrock Content of large stones	1.00 1.00 0.64 0.25	Very limited Flooding Depth to saturated zone Depth to hard bedrock Content of large stones	1.00 1.00 1.00 0.25	Very limited Flooding Depth to saturated zone Depth to hard bedrock Content of large stones	1.00 1.00 0.64 0.25
967: Quazar-----	40	Very limited Slope Content of large stones	1.00 0.97	Very limited Slope Content of large stones	1.00 0.97	Very limited Slope Content of large stones	1.00 0.97
Cryaquolls-----	25	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Flooding Depth to saturated zone	1.00 1.00
Cryohemists-----	20	Very limited Flooding Depth to saturated zone Content of organic matter Subsidence	1.00 1.00 1.00 1.00	Very limited Flooding Depth to saturated zone Subsidence	1.00 1.00 1.00	Very limited Flooding Depth to saturated zone Content of organic matter Subsidence	1.00 1.00 1.00 1.00
968: Nortez-----	50	Very limited Shrink-swell Depth to hard bedrock	1.00 0.29	Very limited Shrink-swell Depth to hard bedrock	1.00 1.00	Very limited Shrink-swell Slope Depth to hard bedrock	1.00 0.88 0.29
Granath-----	35	Not limited		Not limited		Somewhat limited Slope	0.88

Table 15.--Building site development--Continued

Map symbol and soil name	Pct. of map unit	Dwellings without basements		Dwellings with basements		Small commercial buildings	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
969: Nortez-----	45	Very limited Shrink-swell Depth to hard bedrock	1.00 0.29	Very limited Shrink-swell Depth to hard bedrock	1.00 1.00	Very limited Shrink-swell Slope Depth to hard bedrock	1.00 0.88 0.29
Fivepine-----	40	Very limited Depth to hard bedrock Shrink-swell Content of large stones	1.00 0.50 0.06	Very limited Depth to hard bedrock Shrink-swell Content of large stones	1.00 0.50 0.06	Very limited Depth to hard bedrock Slope Shrink-swell Content of large stones	1.00 0.88 0.50 0.06
972: Pagoda-----	35	Very limited Shrink-swell Slope	1.00 1.00	Very limited Shrink-swell Slope	1.00 1.00	Very limited Slope Shrink-swell	1.00 1.00
Coulterg-----	30	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
Wiggler-----	20	Very limited Slope Depth to soft bedrock	1.00 1.00	Very limited Slope Depth to soft bedrock	1.00 1.00	Very limited Slope Depth to soft bedrock	1.00 1.00
989: Ryman-----	90	Somewhat limited Shrink-swell Slope	0.50 0.04	Somewhat limited Shrink-swell Slope	0.50 0.04	Very limited Slope Shrink-swell	1.00 0.50
990: Ryman, warm-----	85	Somewhat limited Shrink-swell Slope	0.50 0.04	Somewhat limited Shrink-swell Slope	0.50 0.04	Very limited Slope Shrink-swell	1.00 0.50
992: Gladlow-----	85	Somewhat limited Slope Shrink-swell	0.63 0.50	Somewhat limited Slope Shrink-swell	0.63 0.50	Very limited Slope Shrink-swell	1.00 0.50
996: Zoltay-----	85	Somewhat limited Shrink-swell Slope	0.50 0.04	Somewhat limited Shrink-swell Slope	0.50 0.04	Very limited Slope Shrink-swell	1.00 0.50

Table 15.--Building site development--Continued

Map symbol and soil name	Pct. of map unit	Dwellings without basements		Dwellings with basements		Small commercial buildings	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
997: Zigzag-----	40	Very limited Slope Depth to soft bedrock Shrink-swell	1.00 1.00 0.50	Very limited Slope Depth to soft bedrock Shrink-swell	1.00 1.00 0.50	Very limited Slope Depth to soft bedrock Shrink-swell	1.00 1.00 0.50
Bodot-----	25	Very limited Slope Shrink-swell	1.00 1.00	Very limited Slope Shrink-swell Depth to soft bedrock	1.00 1.00 0.01	Very limited Slope Shrink-swell	1.00 1.00
Rock outcrop-----	25	Not rated		Not rated		Not rated	

Table 16.--Building site development

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the limitation. See text for further explanation of ratings in this table.)

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
1: Bradfield-----	45	Very limited Shrink-swell	1.00	Very limited Cutbanks cave Too clayey	1.00 0.28	Not limited	
Narraguinnep-----	40	Very limited Low strength Shrink-swell	1.00 0.99	Somewhat limited Cutbanks cave Too clayey	0.10 0.03	Not limited	
2: Hesperus-----	85	Somewhat limited Frost action	0.50	Somewhat limited Depth to saturated zone Cutbanks cave	0.24 0.10	Not limited	
10: Lillings-----	85	Somewhat limited Flooding	0.40	Somewhat limited Cutbanks cave	0.10	Not limited	
12: Shawa-----	80	Somewhat limited Frost action	0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
13: Fughes-----	85	Somewhat limited Shrink-swell Frost action	0.50 0.50	Somewhat limited Too clayey Cutbanks cave	0.28 0.10	Somewhat limited Content of large stones	0.01
14: Dalmatian-----	35	Somewhat limited Frost action Flooding	0.50 0.40	Very limited Cutbanks cave Depth to saturated zone	1.00 0.63	Not limited	

Table 16.--Building site development--Continued

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
14: Apmay-----	35	Somewhat limited Frost action Flooding Depth to saturated zone	0.50 0.40 0.19	Very limited Depth to saturated zone Cutbanks cave	1.00 1.00	Somewhat limited Depth to saturated zone	0.19
Schrader-----	15	Very limited Frost action Flooding Depth to saturated zone	1.00 1.00 0.75	Very limited Depth to saturated zone Flooding Cutbanks cave	1.00 0.60 0.10	Somewhat limited Depth to saturated zone Flooding	0.75 0.60
15: Umbarg-----	80	Somewhat limited Frost action Flooding	0.50 0.40	Somewhat limited Depth to saturated zone Cutbanks cave	0.61 0.10	Not limited	
16: Payter-----	85	Somewhat limited Frost action Slope	0.50 0.04	Somewhat limited Cutbanks cave Slope	0.10 0.04	Somewhat limited Slope	0.04
17: Fluvaquents-----	55	Very limited Flooding Depth to saturated zone Frost action	1.00 0.75 0.50	Very limited Depth to saturated zone Cutbanks cave Flooding	1.00 1.00 0.80	Very limited Flooding Depth to saturated zone Too sandy Droughty	1.00 0.75 0.50 0.42
Haplustolls-----	30	Somewhat limited Flooding	0.40	Very limited Cutbanks cave Depth to saturated zone	1.00 0.03	Somewhat limited Droughty	0.16

Table 16.--Building site development--Continued

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
18: Endoaquolls-----	45	Very limited Depth to saturated zone Flooding	1.00 1.00	Very limited Depth to saturated zone Cutbanks cave Flooding	1.00 1.00 0.80	Very limited Flooding Depth to saturated zone Droughty Content of large stones	1.00 1.00 0.01 0.01
Ustifluvents-----	40	Very limited Flooding	1.00	Very limited Cutbanks cave Depth to saturated zone Flooding	1.00 0.63 0.60	Somewhat limited Flooding Content of large stones	0.60 0.01
20: Mavreeso-----	75	Very limited Slope Frost action	1.00 0.50	Very limited Slope Cutbanks cave	1.00 0.10	Very limited Slope Content of large stones	1.00 0.01
51: Clayburn-----	55	Very limited Slope Frost action	1.00 0.50	Very limited Slope Cutbanks cave	1.00 0.10	Very limited Slope	1.00
Hourglass-----	35	Very limited Slope Frost action	1.00 0.50	Very limited Cutbanks cave Slope	1.00 1.00	Very limited Slope	1.00
52: Ohwiler-----	80	Very limited Slope Frost action	1.00 0.50	Very limited Slope Cutbanks cave	1.00 0.10	Very limited Slope	1.00
53: Cryaquolls-----	50	Very limited Frost action Flooding Depth to saturated zone	1.00 1.00 0.99	Very limited Depth to saturated zone Flooding Cutbanks cave	1.00 0.60 0.10	Somewhat limited Depth to saturated zone Flooding Content of large stones	0.99 0.60 0.01

Table 16.--Building site development--Continued

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
53: Typic Cryaquents----	35	Very limited Frost action Flooding Depth to saturated zone Content of large stones	1.00 1.00 0.99 0.01	Very limited Depth to saturated zone Cutbanks cave Flooding Content of large stones	1.00 1.00 1.00 0.60 0.01	Somewhat limited Depth to saturated zone Flooding Droughty	0.99 0.60 0.09
54: Quazar-----	90	Very limited Content of large stones Frost action Slope	1.00 0.50 0.16	Very limited Cutbanks cave Content of large stones Slope	1.00 1.00 0.16	Very limited Content of large stones Droughty Slope	1.00 0.94 0.16
56: Typic Cryaquents----	35	Very limited Frost action Flooding Depth to saturated zone Content of large stones	1.00 1.00 0.99 0.01	Very limited Depth to saturated zone Cutbanks cave Flooding Content of large stones	1.00 1.00 1.00 0.60 0.01	Somewhat limited Depth to saturated zone Flooding	0.99 0.60
Cryaquolls-----	30	Very limited Frost action Flooding Depth to saturated zone	1.00 1.00 0.99	Very limited Depth to saturated zone Flooding Cutbanks cave	1.00 0.60 0.10	Somewhat limited Depth to saturated zone Flooding Droughty Content of large stones	0.99 0.60 0.01 0.01
Cryofibrists-----	25	Very limited Subsidence Frost action Flooding Depth to saturated zone	1.00 1.00 1.00 0.75	Very limited Depth to saturated zone Content of organic matter Flooding Cutbanks cave	1.00 1.00 1.00 0.80 0.10	Very limited Flooding Depth to saturated zone	1.00 0.75

Table 16.--Building site development--Continued

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
57: Howardsville-----	80	Very limited Content of large stones	1.00	Very limited Cutbanks cave Content of large stones	1.00 1.00	Very limited Droughty Content of large stones Gravel content	1.00 0.20 0.09
58: Fughes-----	55	Very limited Shrink-swell Slope	1.00 1.00	Very limited Slope Too clayey Cutbanks cave	1.00 0.50 0.10	Very limited Slope Content of large stones	1.00 0.01
Herm-----	35	Very limited Shrink-swell Slope	1.00 1.00	Very limited Slope Cutbanks cave	1.00 0.10	Very limited Slope	1.00
59: Fughes-----	45	Very limited Slope Shrink-swell	1.00 1.00	Very limited Slope Too clayey Cutbanks cave	1.00 0.28 0.10	Very limited Slope Content of large stones	1.00 0.92
Herm-----	35	Very limited Slope Shrink-swell	1.00 1.00	Very limited Slope Cutbanks cave	1.00 0.10	Very limited Slope Content of large stones	1.00 1.00
60: Grimes-----	90	Somewhat limited Content of large stones	0.99	Very limited Cutbanks cave Content of large stones	1.00 0.99	Very limited Droughty Content of large stones	1.00 1.00
110: Sheek-----	45	Very limited Slope Content of large stones	1.00 0.47	Very limited Slope Content of large stones Cutbanks cave	1.00 0.47 0.10	Very limited Content of large stones Slope	1.00 1.00

Table 16.--Building site development--Continued

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
110: Ormiston-----	35	Very limited Content of large stones Shrink-swell	0.99 0.50	Very limited Content of large stones Depth to hard bedrock Cutbanks cave	0.99 0.88 0.10	Somewhat limited Content of large stones	0.03
111: Fardraw-----	80	Somewhat limited Content of large stones Shrink-swell Slope	0.71 0.50 0.04	Somewhat limited Content of large stones Cutbanks cave Slope Too clayey	0.71 0.10 0.04 0.03	Somewhat limited Content of large stones Slope	0.08 0.04
113: Dolores-----	80	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope Content of large stones Too clayey Cutbanks cave	1.00 1.00 0.12 0.10	Very limited Slope Droughty	1.00 0.16
150: Silex-----	70	Very limited Depth to hard bedrock Slope	1.00 1.00	Very limited Depth to hard bedrock Slope Cutbanks cave	1.00 1.00 0.10	Very limited Depth to bedrock Slope Droughty	1.00 1.00 0.48
Rock outcrop-----	20	Not rated		Not rated		Not rated	
151: Frisco-----	80	Very limited Slope Content of large stones Frost action	1.00 0.99 0.50	Very limited Slope Content of large stones Cutbanks cave	1.00 0.99 0.10	Very limited Slope	1.00

Table 16.--Building site development--Continued

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
152: Frisco-----	80	Very limited Slope Content of large stones Frost action	1.00 0.99 0.50	Very limited Slope Content of large stones Cutbanks cave	1.00 0.99 0.10	Very limited Slope	1.00
153: Frisco-----	50	Very limited Slope Content of large stones Frost action	1.00 0.99 0.50	Very limited Slope Content of large stones Cutbanks cave	1.00 0.99 0.10	Very limited Slope	1.00
Horsethief-----	30	Very limited Slope	1.00	Very limited Slope Cutbanks cave	1.00 0.10	Very limited Slope	1.00
154: Frisco-----	60	Very limited Slope Content of large stones Frost action	1.00 0.99 0.50	Very limited Slope Content of large stones Cutbanks cave	1.00 0.99 0.10	Very limited Slope	1.00
Horsethief-----	25	Very limited Slope	1.00	Very limited Slope Cutbanks cave	1.00 0.10	Very limited Slope	1.00
155: Tuckerville-----	70	Very limited Slope Content of large stones Frost action	1.00 1.00 0.50	Very limited Slope Content of large stones Cutbanks cave	1.00 1.00 0.10	Very limited Slope	1.00
Rock outcrop-----	20	Not rated		Not rated		Not rated	
156: Sponsor-----	60	Very limited Slope Frost action	1.00 0.50	Very limited Slope Cutbanks cave	1.00 0.10	Very limited Slope	1.00

Table 16.--Building site development--Continued

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
156: Tuckerville-----	30	Very limited Slope Content of large stones Frost action	1.00 0.99 0.50	Very limited Slope Content of large stones Cutbanks cave	1.00 0.99 0.10	Very limited Slope	1.00
157: Sponsor-----	60	Very limited Slope Frost action	1.00 0.50	Very limited Slope Cutbanks cave	1.00 0.10	Very limited Slope	1.00
Tuckerville-----	30	Very limited Slope Content of large stones Frost action	1.00 0.99 0.50	Very limited Slope Content of large stones Cutbanks cave	1.00 0.99 0.10	Very limited Slope	1.00
158: Sponsor-----	60	Very limited Slope Frost action	1.00 0.50	Very limited Slope Cutbanks cave	1.00 0.10	Very limited Slope	1.00
Tuckerville-----	30	Very limited Slope Content of large stones Frost action	1.00 0.99 0.50	Very limited Slope Content of large stones Cutbanks cave	1.00 0.99 0.10	Very limited Slope	1.00
159: Tuckerville-----	80	Very limited Slope Content of large stones Frost action	1.00 1.00 0.50	Very limited Slope Content of large stones Cutbanks cave	1.00 1.00 0.10	Very limited Slope	1.00
160: Anvik-----	40	Very limited Slope Frost action	1.00 0.50	Very limited Slope Cutbanks cave	1.00 0.10	Very limited Slope	1.00

Table 16.--Building site development--Continued

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
160: Tuckerville-----	35	Very limited Slope Content of large stones Frost action	1.00 0.99 0.50	Very limited Slope Content of large stones Cutbanks cave	1.00 0.99 0.10	Very limited Slope	1.00
161: Needleton-----	85	Very limited Content of large stones Frost action Slope	1.00 0.50 0.16	Very limited Content of large stones Slope Cutbanks cave	1.00 0.16 0.10	Somewhat limited Slope Droughty	0.16 0.01
162: Quazar-----	45	Very limited Slope Content of large stones Frost action	1.00 0.99 0.50	Very limited Slope Cutbanks cave Content of large stones	1.00 1.00 0.99	Very limited Slope Content of large stones Droughty	1.00 1.00 0.94
Varden-----	40	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope Content of large stones Cutbanks cave	1.00 1.00 0.10	Very limited Slope Content of large stones Droughty	1.00 1.00 0.95
163: Clayburn-----	50	Very limited Slope Frost action	1.00 0.50	Very limited Slope Cutbanks cave	1.00 0.10	Very limited Slope	1.00
Hourglass-----	35	Very limited Slope Frost action	1.00 0.50	Very limited Slope Cutbanks cave	1.00 1.00	Very limited Slope	1.00
164: Hourglass-----	50	Very limited Slope Frost action	1.00 0.50	Very limited Slope Cutbanks cave	1.00 1.00	Very limited Slope	1.00

Table 16.--Building site development--Continued

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
164: Bucklon-----	25	Very limited Slope Depth to soft bedrock	1.00 1.00	Very limited Depth to soft bedrock Slope Cutbanks cave	1.00 1.00 0.10	Very limited Depth to bedrock Slope Droughty	1.00 1.00 0.96
Wander-----	15	Very limited Slope Content of large stones Frost action	1.00 1.00 0.50	Very limited Slope Content of large stones Cutbanks cave	1.00 1.00 0.10	Very limited Slope Content of large stones Droughty	1.00 1.00 0.16
165: Pinacol-----	85	Very limited Content of large stones Shrink-swell	1.00 0.50	Very limited Content of large stones Cutbanks cave	1.00 0.10	Not limited	
166: Pinacol-----	80	Very limited Slope Content of large stones Shrink-swell	1.00 1.00 0.50	Very limited Slope Content of large stones Cutbanks cave	1.00 1.00 0.10	Very limited Slope	1.00
250: Snowdon-----	55	Very limited Slope Content of large stones Depth to hard bedrock	1.00 1.00 0.99	Very limited Depth to hard bedrock Slope Content of large stones Cutbanks cave	1.00 1.00 1.00 0.10	Very limited Slope Droughty Depth to bedrock	1.00 1.00 0.99
Rock outcrop-----	25	Not rated		Not rated		Not rated	
251: Rock outcrop-----	60	Not rated		Not rated		Not rated	

Table 16.--Building site development--Continued

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
251: Snowdon-----	25	Very limited Slope Content of large stones Depth to hard bedrock	1.00 1.00 0.99	Very limited Depth to hard bedrock Slope Content of large stones Cutbanks cave	1.00 1.00 1.00 1.00 0.10	Very limited Slope Droughty Depth to bedrock	1.00 1.00 0.99
254: Typic Cryorthents---	50	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope Content of large stones Cutbanks cave	1.00 1.00 0.10	Very limited Slope Content of large stones Droughty	1.00 1.00 0.99
Rubble land-----	30	Not rated		Not rated		Not rated	
330: Needleton-----	85	Very limited Slope Content of large stones Frost action	1.00 1.00 0.50	Very limited Slope Content of large stones Cutbanks cave	1.00 1.00 0.10	Very limited Slope Droughty	1.00 0.01
331: Needleton-----	80	Very limited Slope Content of large stones Frost action	1.00 1.00 0.50	Very limited Slope Content of large stones Cutbanks cave	1.00 1.00 0.10	Very limited Slope Droughty	1.00 0.01
332: Horsethief-----	55	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope Content of large stones Cutbanks cave	1.00 1.00 0.10	Very limited Slope Droughty	1.00 0.03

Table 16.--Building site development--Continued

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
332: Needleton-----	35	Very limited Slope Content of large stones Frost action	1.00 1.00 0.50	Very limited Slope Content of large stones Cutbanks cave	1.00 1.00 0.10	Very limited Slope Droughty	1.00 0.01
333: Henson, south aspect	85	Very limited Content of large stones Slope Frost action	1.00 1.00 0.50	Very limited Content of large stones Slope Cutbanks cave	1.00 1.00 0.10	Very limited Slope Droughty	1.00 0.43
334: Henson, south aspect	80	Very limited Slope Content of large stones Frost action	1.00 1.00 0.50	Very limited Slope Content of large stones Cutbanks cave	1.00 1.00 0.10	Very limited Slope Droughty	1.00 0.43
335: Whitecross-----	55	Very limited Depth to hard bedrock Slope Content of large stones	1.00 1.00 1.00	Very limited Depth to hard bedrock Slope Content of large stones Cutbanks cave	1.00 1.00 1.00 0.10	Very limited Depth to bedrock Slope Droughty	1.00 1.00 1.00
Rock outcrop-----	30	Not rated		Not rated		Not rated	
336: Whitecross, south aspect-----	50	Very limited Depth to hard bedrock Slope Content of large stones	1.00 1.00 1.00	Very limited Depth to hard bedrock Slope Content of large stones Cutbanks cave	1.00 1.00 1.00 0.10	Very limited Depth to bedrock Slope Droughty	1.00 1.00 1.00
Rock outcrop-----	25	Not rated		Not rated		Not rated	

Table 16.--Building site development--Continued

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
337: Whitcross-----	60	Very limited Depth to hard bedrock Slope Content of large stones	1.00 1.00 1.00	Very limited Depth to hard bedrock Slope Content of large stones Cutbanks cave	1.00 1.00 1.00 0.10	Very limited Depth to bedrock Slope Droughty	1.00 1.00 1.00
Rock outcrop-----	25	Not rated		Not rated		Not rated	
338: Henson-----	80	Very limited Content of large stones Slope Frost action	1.00 1.00 0.50	Very limited Content of large stones Slope Cutbanks cave	1.00 1.00 0.10	Very limited Slope Droughty	1.00 0.43
339: Henson-----	80	Very limited Slope Content of large stones Frost action	1.00 1.00 0.50	Very limited Slope Content of large stones Cutbanks cave	1.00 1.00 0.10	Very limited Slope Droughty	1.00 0.43
340: Moran-----	80	Very limited Slope Content of large stones Frost action	1.00 0.99 0.50	Very limited Cutbanks cave Slope Content of large stones	1.00 1.00 0.99	Very limited Slope Droughty	1.00 0.33
341: Moran-----	80	Very limited Slope Content of large stones Frost action	1.00 0.99 0.50	Very limited Slope Cutbanks cave Content of large stones	1.00 1.00 0.99	Very limited Slope Droughty	1.00 0.33

Table 16.--Building site development--Continued

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
342: Telluride-----	60	Very limited Depth to hard bedrock Slope Content of large stones	1.00 1.00 0.43	Very limited Depth to hard bedrock Slope Content of large stones Cutbanks cave	1.00 1.00 0.43 0.10	Very limited Depth to bedrock Slope Droughty	1.00 1.00 0.92
Rock outcrop-----	20	Not rated		Not rated		Not rated	
343: Telluride-----	60	Very limited Depth to hard bedrock Slope Content of large stones	1.00 1.00 0.43	Very limited Depth to hard bedrock Slope Content of large stones Cutbanks cave	1.00 1.00 0.43 0.10	Very limited Depth to bedrock Slope Droughty	1.00 1.00 0.92
Rock outcrop-----	25	Not rated		Not rated		Not rated	
345: Papaspila-----	85	Somewhat limited Frost action Content of large stones	0.50 0.07	Very limited Cutbanks cave Content of large stones	1.00 0.07	Somewhat limited Content of large stones	0.01
350: Flygare-----	45	Very limited Content of large stones Frost action	1.00 0.50	Very limited Content of large stones Cutbanks cave	1.00 0.10	Somewhat limited Droughty	0.01
Foidel-----	40	Somewhat limited Frost action	0.50	Very limited Cutbanks cave	1.00	Not limited	
355: Flygare-----	45	Very limited Slope Content of large stones Frost action	1.00 1.00 0.50	Very limited Slope Content of large stones Cutbanks cave	1.00 1.00 0.10	Very limited Slope Droughty	1.00 0.01

Table 16.--Building site development--Continued

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
355: Foidel-----	40	Very limited Slope Frost action	1.00 0.50	Very limited Slope Cutbanks cave	1.00 1.00	Very limited Slope	1.00
360: Blacksnag-----	45	Very limited Content of large stones Frost action Slope	1.00 0.50 0.04	Very limited Content of large stones Cutbanks cave Slope	1.00 0.10 0.04	Very limited Content of large stones Droughty Slope	1.00 0.73 0.04
Peeler-----	40	Somewhat limited Frost action Slope	0.50 0.04	Somewhat limited Cutbanks cave Slope	0.10 0.04	Somewhat limited Slope	0.04
361: Blacksnag-----	45	Very limited Slope Content of large stones Frost action	1.00 1.00 0.50	Very limited Slope Content of large stones Cutbanks cave	1.00 1.00 0.10	Very limited Slope Content of large stones Droughty	1.00 1.00 0.73
Peeler-----	40	Very limited Slope Frost action	1.00 0.50	Very limited Slope Cutbanks cave	1.00 0.10	Very limited Slope	1.00
374: Mavreeso-----	35	Very limited Slope Frost action	1.00 0.50	Very limited Slope Cutbanks cave	1.00 0.10	Very limited Slope Content of large stones	1.00 0.01
Valto-----	30	Very limited Depth to hard bedrock Slope Content of large stones	1.00 1.00 1.00 1.00	Very limited Depth to hard bedrock Slope Content of large stones Cutbanks cave	1.00 1.00 1.00 1.00 0.10	Very limited Depth to bedrock Slope Droughty	1.00 1.00 1.00
Rock outcrop-----	20	Not rated		Not rated		Not rated	

Table 16.--Building site development--Continued

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
375: Needleton-----	55	Very limited Content of large stones Frost action Slope	1.00 0.50 0.16	Very limited Content of large stones Slope Cutbanks cave	1.00 0.16 0.10	Somewhat limited Slope Droughty	0.16 0.01
Snowdon-----	30	Very limited Content of large stones Depth to hard bedrock Slope	1.00 0.99 0.16	Very limited Depth to hard bedrock Content of large stones Slope Cutbanks cave	1.00 1.00 0.16 0.10	Very limited Depth to bedrock Droughty Slope	0.99 0.99 0.16
376: Needleton-----	80	Very limited Slope Content of large stones Frost action	1.00 0.58 0.50	Very limited Slope Content of large stones Cutbanks cave	1.00 0.58 0.10	Very limited Slope	1.00
378: Needleton-----	65	Very limited Slope Content of large stones Frost action	1.00 0.58 0.50	Very limited Slope Content of large stones Cutbanks cave	1.00 0.58 0.10	Very limited Slope	1.00
Haviland-----	25	Very limited Slope Shrink-swell Frost action	1.00 0.50 0.50	Very limited Slope Cutbanks cave	1.00 1.00	Very limited Slope	1.00
380: Snowdon-----	50	Very limited Slope Content of large stones Depth to hard bedrock	1.00 0.99 0.99	Very limited Depth to hard bedrock Slope Content of large stones Cutbanks cave	1.00 1.00 0.99 0.10	Very limited Slope Depth to bedrock Droughty	1.00 0.99 0.93

Table 16.--Building site development--Continued

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
380: Rock outcrop-----	35	Not rated		Not rated		Not rated	
381: Needleton-----	45	Very limited Slope Content of large stones Frost action	1.00 1.00 0.50	Very limited Slope Content of large stones Cutbanks cave	1.00 1.00 0.10	Very limited Slope Droughty	1.00 0.01
Snowdon-----	30	Very limited Slope Content of large stones Depth to hard bedrock	1.00 1.00 0.99	Very limited Depth to hard bedrock Slope Content of large stones Cutbanks cave	1.00 1.00 1.00 0.10	Very limited Slope Droughty Depth to bedrock	1.00 1.00 0.99
Rock outcrop-----	15	Not rated		Not rated		Not rated	
382: Needleton-----	50	Very limited Slope Content of large stones Frost action	1.00 1.00 0.50	Very limited Slope Content of large stones Cutbanks cave	1.00 1.00 0.10	Very limited Slope Droughty	1.00 0.01
Snowdon-----	30	Very limited Slope Content of large stones Depth to hard bedrock	1.00 1.00 0.99	Very limited Depth to hard bedrock Slope Content of large stones Cutbanks cave	1.00 1.00 1.00 0.10	Very limited Slope Droughty Depth to bedrock	1.00 1.00 0.99
383: Haviland-----	50	Very limited Slope Shrink-swell Frost action	1.00 0.50 0.50	Very limited Cutbanks cave Slope	1.00 1.00	Very limited Slope	1.00

Table 16.--Building site development--Continued

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
383: Needleton-----	35	Very limited Slope Content of large stones Frost action	1.00 1.00 0.50	Very limited Slope Content of large stones Cutbanks cave	1.00 1.00 0.10	Very limited Slope Droughty	1.00 0.01
386: Needleton-----	70	Very limited Slope Content of large stones Frost action	1.00 1.00 0.50	Very limited Slope Content of large stones Cutbanks cave	1.00 1.00 0.10	Very limited Slope Droughty	1.00 0.01
387: Frisco-----	50	Very limited Slope Content of large stones Frost action	1.00 1.00 0.50	Very limited Slope Content of large stones Cutbanks cave	1.00 1.00 0.10	Very limited Slope	1.00
Quazar-----	40	Very limited Slope Content of large stones Frost action	1.00 0.97 0.50	Very limited Slope Cutbanks cave Content of large stones	1.00 1.00 0.97	Very limited Slope Content of large stones Droughty	1.00 1.00 0.94
388: Frisco-----	50	Very limited Slope Content of large stones Frost action	1.00 1.00 0.50	Very limited Slope Content of large stones Cutbanks cave	1.00 1.00 0.10	Very limited Slope	1.00
Quazar-----	45	Very limited Slope Content of large stones Frost action	1.00 0.97 0.50	Very limited Slope Cutbanks cave Content of large stones	1.00 1.00 0.97	Very limited Slope Content of large stones Droughty	1.00 1.00 0.94

Table 16.--Building site development--Continued

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
389: Seitz-----	85	Very limited Content of large stones Slope Shrink-swell	1.00 1.00 0.50	Very limited Content of large stones Slope Cutbanks cave Too clayey	1.00 1.00 0.10 0.02	Very limited Slope	1.00
390: Clayburn-----	40	Very limited Slope Frost action	1.00 0.50	Very limited Slope Cutbanks cave	1.00 0.10	Very limited Slope	1.00
Heisspitz-----	30	Very limited Depth to hard bedrock Slope	1.00 1.00	Very limited Depth to hard bedrock Slope Cutbanks cave	1.00 1.00 0.10	Very limited Depth to bedrock Slope Droughty Content of large stones	1.00 1.00 0.88 0.01
391: Runlett-----	50	Very limited Shrink-swell Slope Depth to hard bedrock Frost action	1.00 1.00 0.71 0.50	Very limited Depth to hard bedrock Slope Cutbanks cave Too clayey	1.00 1.00 0.10 0.03	Very limited Slope Depth to bedrock Content of large stones	1.00 0.71 0.01
Sessions-----	30	Very limited Slope Shrink-swell Frost action	1.00 0.50 0.50	Very limited Cutbanks cave Slope	1.00 1.00	Very limited Slope	1.00
392: Runlett-----	30	Very limited Slope Shrink-swell Depth to hard bedrock Frost action	1.00 1.00 0.74 0.50	Very limited Depth to hard bedrock Slope Cutbanks cave Too clayey	1.00 1.00 0.10 0.03	Very limited Slope Depth to bedrock Content of large stones	1.00 0.74 0.01

Table 16.--Building site development--Continued

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
392: Needleton-----	30	Very limited Slope Content of large stones Frost action	1.00 0.58 0.50	Very limited Slope Content of large stones Cutbanks cave	1.00 0.58 0.10	Very limited Slope	1.00
Sessions-----	20	Very limited Slope Shrink-swell Frost action	1.00 0.50 0.50	Very limited Slope Cutbanks cave	1.00 1.00	Very limited Slope	1.00
393: Heisspitz-----	50	Very limited Depth to hard bedrock Slope	1.00 0.16	Very limited Depth to hard bedrock Slope Cutbanks cave	1.00 0.16 0.10	Very limited Depth to bedrock Droughty Slope Content of large stones	1.00 0.88 0.16 0.01
Sessions-----	25	Somewhat limited Shrink-swell Frost action Slope	0.50 0.50 0.16	Very limited Cutbanks cave Slope	1.00 0.16	Somewhat limited Slope	0.16
Rock outcrop-----	20	Not rated		Not rated		Not rated	
394: Clayburn-----	55	Very limited Slope Frost action	1.00 0.50	Very limited Slope Cutbanks cave	1.00 0.10	Very limited Slope	1.00
Heisspitz-----	30	Very limited Depth to hard bedrock Slope	1.00 1.00	Very limited Depth to hard bedrock Slope Cutbanks cave	1.00 1.00 0.10	Very limited Depth to bedrock Slope Droughty Content of large stones	1.00 1.00 0.88 0.01

Table 16.--Building site development--Continued

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
395: Scout-----	85	Very limited Slope Content of large stones Frost action	1.00 1.00 0.50	Very limited Slope Content of large stones Cutbanks cave	1.00 1.00 0.10	Very limited Slope Droughty	1.00 0.09
396: Scout-----	85	Very limited Slope Content of large stones Frost action	1.00 1.00 0.50	Very limited Slope Content of large stones Cutbanks cave	1.00 1.00 0.10	Very limited Slope Droughty	1.00 0.09
399: Kite-----	40	Very limited Depth to hard bedrock Slope	1.00 1.00	Very limited Depth to hard bedrock Slope Cutbanks cave	1.00 1.00 0.10	Very limited Depth to bedrock Slope Droughty	1.00 1.00 0.95
Rock outcrop-----	35	Not rated		Not rated		Not rated	
450: Lostlake-----	45	Very limited Depth to hard bedrock Slope	1.00 1.00	Very limited Depth to hard bedrock Slope Cutbanks cave	1.00 1.00 0.10	Very limited Depth to bedrock Slope Droughty	1.00 1.00 0.95
Rock outcrop-----	35	Not rated		Not rated		Not rated	
452: Dystrocryepts-----	55	Very limited Depth to hard bedrock Slope	1.00 1.00	Very limited Depth to hard bedrock Slope Cutbanks cave	1.00 1.00 0.10	Very limited Depth to bedrock Slope Droughty Gravel content Content of large stones	1.00 1.00 0.99 0.20 0.01
Rock outcrop-----	35	Not rated		Not rated		Not rated	

Table 16.--Building site development--Continued

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
453: Sig-----	40	Very limited Depth to hard bedrock Slope	1.00 1.00	Very limited Depth to hard bedrock Slope Cutbanks cave	1.00 1.00 0.10	Very limited Depth to bedrock Slope Droughty	1.00 1.00 1.00
Rock outcrop-----	30	Not rated		Not rated		Not rated	
Snowdon-----	20	Very limited Slope Content of large stones Depth to hard bedrock	1.00 1.00 0.99	Very limited Depth to hard bedrock Slope Content of large stones Cutbanks cave	1.00 1.00 1.00 0.10	Very limited Slope Droughty Depth to bedrock	1.00 1.00 0.99
454: Snowdon-----	35	Very limited Slope Content of large stones Depth to hard bedrock	1.00 1.00 0.99	Very limited Depth to hard bedrock Slope Content of large stones Cutbanks cave	1.00 1.00 1.00 0.10	Very limited Slope Droughty Depth to bedrock	1.00 1.00 0.99
Sig-----	30	Very limited Depth to hard bedrock Slope	1.00 1.00	Very limited Depth to hard bedrock Slope Cutbanks cave	1.00 1.00 0.10	Very limited Depth to bedrock Slope Droughty	1.00 1.00 1.00
Rock outcrop-----	25	Not rated		Not rated		Not rated	
493: Badland-----	90	Not rated		Not rated		Not rated	
494: Pits, gravel-----	100	Not rated		Not rated		Not rated	
495: Riverwash-----	85	Not rated		Not rated		Not rated	

Table 16.--Building site development--Continued

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
496: Rock outcrop-----	70	Not rated		Not rated		Not rated	
497: Rubble land-----	80	Not rated		Not rated		Not rated	
498: Slickens-----	80	Not rated		Not rated		Not rated	
499: Water-----	100	Not rated		Not rated		Not rated	
500: Dolores-----	50	Very limited Content of large stones	1.00	Very limited Content of large stones Too clayey Cutbanks cave	1.00 0.28 0.10	Somewhat limited Droughty	0.16
Fivepine-----	35	Very limited Depth to hard bedrock Shrink-swell Content of large stones	1.00 0.50 0.32	Very limited Depth to hard bedrock Content of large stones Cutbanks cave	1.00 0.32 0.10	Very limited Depth to bedrock Droughty Content of large stones	1.00 1.00 1.00
501: Fivepine-----	60	Very limited Depth to hard bedrock Shrink-swell Content of large stones	1.00 0.50 0.32	Very limited Depth to hard bedrock Content of large stones Cutbanks cave	1.00 0.32 0.10	Very limited Depth to bedrock Droughty Content of large stones	1.00 1.00 1.00
Nortez-----	25	Very limited Shrink-swell Depth to hard bedrock	1.00 0.29	Very limited Depth to hard bedrock Cutbanks cave	1.00 0.10	Somewhat limited Depth to bedrock	0.29

Table 16.--Building site development--Continued

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
503: Ormiston-----	50	Very limited Content of large stones Shrink-swell	1.00 0.50	Very limited Content of large stones Depth to hard bedrock Cutbanks cave	1.00 0.88 0.10	Somewhat limited Content of large stones	0.03
Fivepine-----	35	Very limited Depth to hard bedrock Shrink-swell Content of large stones	1.00 0.50 0.32	Very limited Depth to hard bedrock Content of large stones Cutbanks cave	1.00 0.32 0.10	Very limited Depth to bedrock Droughty Content of large stones	1.00 1.00 1.00
504: Jemco-----	40	Somewhat limited Frost action Depth to hard bedrock	0.50 0.01	Very limited Depth to hard bedrock Cutbanks cave	1.00 0.10	Somewhat limited Depth to bedrock	0.01
Detra-----	30	Somewhat limited Frost action	0.50	Somewhat limited Cutbanks cave Depth to hard bedrock	0.10 0.02	Not limited	
Beje-----	20	Very limited Depth to hard bedrock Frost action	1.00 0.50	Very limited Depth to hard bedrock Cutbanks cave	1.00 0.10	Very limited Depth to bedrock Droughty Content of large stones	1.00 0.95 0.01
505: Moento-----	80	Somewhat limited Frost action Depth to hard bedrock	0.50 0.06	Very limited Depth to hard bedrock Cutbanks cave	1.00 0.10	Somewhat limited Depth to bedrock	0.06

Table 16.--Building site development--Continued

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
506: Moento-----	35	Somewhat limited Shrink-swell Frost action Depth to hard bedrock	0.50 0.50 0.06	Very limited Depth to hard bedrock Cutbanks cave	1.00 0.10	Somewhat limited Depth to bedrock	0.06
Detra-----	30	Somewhat limited Frost action Slope	0.50 0.04	Somewhat limited Cutbanks cave Slope Depth to hard bedrock	0.10 0.04 0.02	Somewhat limited Slope	0.04
Jemco-----	20	Somewhat limited Frost action Depth to hard bedrock	0.50 0.01	Very limited Depth to hard bedrock Cutbanks cave	1.00 0.10	Somewhat limited Depth to bedrock	0.01
508: Herm-----	50	Very limited Shrink-swell	1.00	Somewhat limited Cutbanks cave	0.10	Not limited	
Pagoda-----	35	Very limited Shrink-swell	1.00	Somewhat limited Cutbanks cave	0.10	Not limited	
509: Burnson, dry-----	80	Very limited Shrink-swell Frost action	1.00 0.50	Somewhat limited Depth to hard bedrock Too clayey Cutbanks cave	0.88 0.12 0.10	Not limited	
510: Jemco-----	60	Somewhat limited Frost action Depth to hard bedrock	0.50 0.01	Very limited Depth to hard bedrock Cutbanks cave	1.00 0.10	Somewhat limited Depth to bedrock	0.01
Moento-----	25	Somewhat limited Frost action Depth to hard bedrock	0.50 0.06	Very limited Depth to hard bedrock Cutbanks cave	1.00 0.10	Somewhat limited Depth to bedrock	0.06

Table 16.--Building site development--Continued

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
511: Granath-----	50	Somewhat limited Frost action	0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
Fughes-----	35	Somewhat limited Shrink-swell	0.50	Somewhat limited Too clayey Cutbanks cave	0.50 0.10	Not limited	
512: Wetherill-----	85	Somewhat limited Shrink-swell Frost action	0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
513: Maudrey-----	50	Very limited Shrink-swell Frost action	1.00 0.50	Somewhat limited Too clayey Cutbanks cave	0.28 0.10	Not limited	
Tombac-----	35	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
525: Arabrab-----	85	Very limited Depth to hard bedrock	1.00	Very limited Depth to hard bedrock Cutbanks cave	1.00 0.10	Very limited Depth to bedrock Droughty	1.00 0.86
526: Lonecone-----	80	Not limited		Very limited Cutbanks cave Depth to soft bedrock	1.00 0.46	Somewhat limited Depth to bedrock	0.46
527: Ormiston-----	50	Very limited Content of large stones Slope Shrink-swell	1.00 1.00 0.50	Very limited Content of large stones Slope Depth to hard bedrock Cutbanks cave	1.00 1.00 0.88 0.10	Very limited Slope Content of large stones	1.00 0.03

Table 16.--Building site development--Continued

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
527: Beje-----	35	Very limited Depth to hard bedrock Slope Frost action	1.00 1.00 0.50	Very limited Depth to hard bedrock Slope Cutbanks cave	1.00 1.00 0.10	Very limited Depth to bedrock Slope Droughty Content of large stones	1.00 1.00 0.95 0.01
552: Burnson-----	80	Very limited Shrink-swell Frost action	1.00 0.50	Somewhat limited Depth to hard bedrock Too clayey Cutbanks cave	0.88 0.12 0.10	Not limited	
553: Burnson-----	50	Very limited Slope Shrink-swell Frost action	1.00 1.00 0.50	Very limited Slope Depth to hard bedrock Too clayey Cutbanks cave	1.00 0.88 0.12 0.10	Very limited Slope	1.00
Herm-----	30	Very limited Slope Shrink-swell	1.00 1.00	Very limited Slope Cutbanks cave	1.00 0.10	Very limited Slope	1.00
571: Mancos-----	40	Somewhat limited Frost action Depth to hard bedrock	0.50 0.15	Very limited Depth to hard bedrock Cutbanks cave	1.00 1.00	Somewhat limited Depth to bedrock	0.16
Skisams-----	35	Very limited Depth to hard bedrock	1.00	Very limited Depth to hard bedrock Cutbanks cave	1.00 0.10	Very limited Depth to bedrock Droughty	1.00 1.00
Skutum-----	20	Somewhat limited Frost action	0.50	Very limited Cutbanks cave	1.00	Not limited	

Table 16.--Building site development--Continued

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
572: Sudduth-----	85	Somewhat limited Shrink-swell Frost action	0.50 0.50	Very limited Cutbanks cave Too clayey Depth to saturated zone	1.00 0.50 0.35	Somewhat limited Content of large stones	0.01
600: Valto-----	50	Very limited Depth to hard bedrock Slope Content of large stones	1.00 1.00 1.00	Very limited Depth to hard bedrock Slope Content of large stones Cutbanks cave	1.00 1.00 1.00 0.10	Very limited Depth to bedrock Droughty Slope	1.00 1.00 1.00
Rock outcrop-----	35	Not rated		Not rated		Not rated	
601: Weminuche-----	85	Very limited Slope Frost action	1.00 0.50	Very limited Slope Cutbanks cave	1.00 1.00	Very limited Slope	1.00
602: Weminuche-----	85	Very limited Slope Frost action	1.00 0.50	Very limited Cutbanks cave Slope	1.00 1.00	Very limited Slope	1.00
603: Weminuche-----	55	Very limited Slope Frost action	1.00 0.50	Very limited Slope Cutbanks cave	1.00 1.00	Very limited Slope	1.00
Anvik-----	25	Very limited Slope Frost action	1.00 0.50	Very limited Slope Cutbanks cave	1.00 0.10	Very limited Slope	1.00

Table 16.--Building site development--Continued

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
605: Nordicol-----	80	Very limited Content of large stones Slope	1.00 1.00	Very limited Content of large stones Slope Cutbanks cave	1.00 1.00 0.10	Very limited Slope Droughty	1.00 0.07
606: Snowdon-----	50	Very limited Slope Content of large stones Depth to hard bedrock	1.00 1.00 0.99	Very limited Depth to hard bedrock Slope Content of large stones Cutbanks cave	1.00 1.00 1.00 0.10	Very limited Slope Depth to bedrock Droughty	1.00 0.99 0.95
Needleton-----	35	Very limited Slope Content of large stones Frost action	1.00 1.00 0.50	Very limited Slope Content of large stones Cutbanks cave	1.00 1.00 1.00 0.10	Very limited Slope Droughty	1.00 0.01
607: Graysill-----	45	Very limited Slope Frost action Depth to hard bedrock	1.00 0.50 0.03	Very limited Depth to hard bedrock Slope Cutbanks cave	1.00 1.00 0.10	Very limited Slope Depth to bedrock	1.00 0.03
Scotch-----	35	Very limited Depth to hard bedrock Slope	1.00 1.00	Very limited Depth to hard bedrock Slope Cutbanks cave	1.00 1.00 0.10	Very limited Depth to bedrock Slope Droughty	1.00 1.00 0.49
608: Scotch-----	45	Very limited Depth to hard bedrock Slope	1.00 1.00	Very limited Depth to hard bedrock Slope Cutbanks cave	1.00 1.00 0.10	Very limited Depth to bedrock Slope Droughty	1.00 1.00 0.49

Table 16.--Building site development--Continued

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
608: Graysill-----	35	Very limited Slope Frost action Depth to hard bedrock	1.00 0.50 0.03	Very limited Depth to hard bedrock Slope Cutbanks cave	1.00 1.00 0.10	Very limited Slope Depth to bedrock	1.00 0.03
609: Hourglass-----	50	Very limited Slope Frost action	1.00 0.50	Very limited Cutbanks cave Slope	1.00 1.00	Very limited Slope	1.00
Wander-----	35	Very limited Content of large stones Slope Frost action	1.00 1.00 0.50	Very limited Content of large stones Slope Cutbanks cave	1.00 1.00 0.10	Very limited Content of large stones Slope Droughty	1.00 1.00 0.16
610: Wander-----	45	Very limited Slope Content of large stones Frost action	1.00 1.00 0.50	Very limited Slope Content of large stones Cutbanks cave	1.00 1.00 0.10	Very limited Slope Content of large stones Droughty	1.00 1.00 0.16
Hotter-----	30	Very limited Depth to hard bedrock Slope Content of large stones	1.00 1.00 1.00	Very limited Depth to hard bedrock Slope Content of large stones Cutbanks cave	1.00 1.00 1.00 0.10	Very limited Depth to bedrock Slope Droughty Content of large stones	1.00 1.00 1.00
Hourglass-----	15	Very limited Slope Frost action	1.00 0.50	Very limited Slope Cutbanks cave	1.00 1.00	Very limited Slope	1.00
611: Goldbug-----	85	Very limited Content of large stones Slope	1.00 1.00	Very limited Content of large stones Slope Cutbanks cave	1.00 1.00 0.10	Very limited Slope Droughty	1.00 0.01

Table 16.--Building site development--Continued

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
612: Haviland-----	50	Very limited Slope Frost action	1.00 0.50	Very limited Cutbanks cave Slope	1.00 1.00	Very limited Slope	1.00
Graysill-----	35	Very limited Slope Frost action Depth to hard bedrock	1.00 0.50 0.03	Very limited Depth to hard bedrock Slope Cutbanks cave	1.00 1.00 0.10	Very limited Slope Depth to bedrock	1.00 0.03
615: Haviland-----	75	Very limited Slope Frost action	1.00 0.50	Very limited Slope Cutbanks cave	1.00 1.00	Very limited Slope	1.00
616: Furtlewis-----	85	Somewhat limited Shrink-swell Depth to hard bedrock	0.50 0.01	Very limited Depth to hard bedrock Cutbanks cave	1.00 0.10	Somewhat limited Depth to bedrock	0.01
617: Shawa-----	85	Somewhat limited Slope Frost action	0.74 0.50	Somewhat limited Slope Cutbanks cave	0.74 0.10	Somewhat limited Slope	0.74
618: Nordicol-----	50	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope Content of large stones Cutbanks cave	1.00 1.00 0.10	Very limited Slope Droughty	1.00 0.02
Valto-----	35	Very limited Depth to hard bedrock Slope Content of large stones	1.00 1.00 1.00	Very limited Depth to hard bedrock Slope Content of large stones Cutbanks cave	1.00 1.00 1.00 0.10	Very limited Depth to bedrock Slope Droughty	1.00 1.00 1.00

Table 16.--Building site development--Continued

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
619: Nordicol-----	80	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope Content of large stones Cutbanks cave	1.00 1.00 0.10	Very limited Slope Droughty	1.00 0.11
620: Caviness-----	90	Very limited Slope Content of large stones	1.00 0.04	Very limited Slope Cutbanks cave Content of large stones Too clayey Depth to hard bedrock	1.00 0.10 0.04 0.03 0.01	Very limited Slope	1.00
621: Granturk-----	85	Very limited Depth to hard bedrock Slope	1.00 1.00	Very limited Depth to hard bedrock Slope Cutbanks cave	1.00 1.00 1.00 0.10	Very limited Depth to bedrock Slope Droughty	1.00 1.00 0.46
622: Granturk-----	60	Very limited Depth to hard bedrock Slope	1.00 1.00	Very limited Depth to hard bedrock Slope Cutbanks cave	1.00 1.00 1.00 0.10	Very limited Depth to bedrock Slope Droughty	1.00 1.00 0.46
Rock outcrop-----	30	Not rated		Not rated		Not rated	
623: Chris-----	50	Very limited Slope Frost action	1.00 0.50	Very limited Slope Cutbanks cave	1.00 1.00	Very limited Slope	1.00
Nordicol-----	40	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope Content of large stones Cutbanks cave	1.00 1.00 0.10	Very limited Slope Droughty	1.00 0.02

Table 16.--Building site development--Continued

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
699: Haplocryolls-----	40	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope Content of large stones Cutbanks cave	1.00 1.00 0.10	Very limited Slope Droughty	1.00 0.06
Rubble land-----	40	Not rated		Not rated		Not rated	
700: Bradfield-----	90	Very limited Shrink-swell	1.00	Very limited Cutbanks cave Too clayey	1.00 0.28	Not limited	
703: Narraguinnep-----	80	Very limited Slope Shrink-swell	1.00 0.99	Very limited Slope Cutbanks cave Too clayey	1.00 0.10 0.03	Very limited Slope	1.00
704: Gladlow-----	30	Somewhat limited Shrink-swell Slope	0.50 0.04	Somewhat limited Cutbanks cave Slope	0.10 0.04	Somewhat limited Slope	0.04
Rock outcrop-----	30	Not rated		Not rated		Not rated	
Ruko-----	20	Somewhat limited Depth to soft bedrock Shrink-swell Frost action Slope	1.00 0.50 0.50 0.04	Very limited Depth to soft bedrock Cutbanks cave Slope	1.00 0.10 0.04	Very limited Depth to bedrock Droughty Slope	1.00 0.99 0.04
705: Helmet-----	80	Very limited Shrink-swell Frost action	1.00 0.50	Somewhat limited Too clayey Cutbanks cave	0.12 0.10	Not limited	

Table 16.--Building site development--Continued

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
706: Narraguinnep-----	85	Somewhat limited Shrink-swell Slope	0.99 0.16	Somewhat limited Slope Cutbanks cave Too clayey	0.16 0.10 0.03	Somewhat limited Slope	0.16
707: Teedown-----	50	Very limited Shrink-swell Frost action Slope	1.00 0.50 0.16	Somewhat limited Slope Cutbanks cave Too clayey	0.16 0.10 0.03	Somewhat limited Slope Content of large stones	0.16 0.03
Nordicol-----	35	Very limited Content of large stones Slope	1.00 0.16	Very limited Content of large stones Slope Cutbanks cave	1.00 0.16 0.10	Somewhat limited Slope	0.16
708: Helmet-----	80	Very limited Slope Shrink-swell Frost action	1.00 1.00 0.50	Very limited Slope Too clayey Cutbanks cave	1.00 0.12 0.10	Very limited Slope	1.00
709: Teedown-----	85	Very limited Shrink-swell Frost action	1.00 0.50	Somewhat limited Cutbanks cave Too clayey	0.10 0.03	Somewhat limited Content of large stones	0.03
710: Sili-----	50	Somewhat limited Shrink-swell Slope	0.50 0.16	Somewhat limited Slope Cutbanks cave	0.16 0.10	Somewhat limited Slope	0.16
Zigzag-----	30	Somewhat limited Depth to soft bedrock Shrink-swell Slope	1.00 0.50 0.16	Very limited Depth to soft bedrock Slope Cutbanks cave	1.00 0.16 0.10	Very limited Depth to bedrock Droughty Gravel content Slope Content of large stones	1.00 1.00 0.16 0.16 0.03

Table 16.--Building site development--Continued

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
711: Sili-----	85	Somewhat limited Shrink-swell Slope	0.50 0.16	Somewhat limited Slope Cutbanks cave	0.16 0.10	Somewhat limited Slope	0.16
714: Helmet-----	80	Very limited Slope Shrink-swell Frost action	1.00 1.00 0.50	Very limited Slope Too clayey Cutbanks cave	1.00 0.12 0.10	Very limited Slope	1.00
718: Narraguinnep-----	50	Very limited Slope Shrink-swell	1.00 0.99	Very limited Slope Cutbanks cave Too clayey	1.00 0.10 0.03	Very limited Slope	1.00
Gladlow-----	40	Very limited Slope Shrink-swell	1.00 0.50	Very limited Slope Cutbanks cave	1.00 0.10	Very limited Slope	1.00
720: Zigzag-----	45	Very limited Slope Depth to soft bedrock Shrink-swell	1.00 1.00 0.50	Very limited Depth to soft bedrock Slope Cutbanks cave	1.00 1.00 0.10	Very limited Depth to bedrock Slope Droughty Gravel content Content of large stones	1.00 1.00 1.00 0.16 0.03
Rock outcrop-----	35	Not rated		Not rated		Not rated	
723: Zigzag-----	50	Very limited Slope Depth to soft bedrock Shrink-swell	1.00 1.00 0.50	Very limited Depth to soft bedrock Slope Cutbanks cave	1.00 1.00 0.10	Very limited Depth to bedrock Slope Droughty Gravel content Content of large stones	1.00 1.00 1.00 0.16 0.03
Rock outcrop-----	40	Not rated		Not rated		Not rated	

Table 16.--Building site development--Continued

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
725: Shawa-----	85	Very limited Slope Frost action	1.00 0.50	Very limited Slope Cutbanks cave	1.00 0.10	Very limited Slope	1.00
727: Teedown-----	50	Very limited Slope Shrink-swell Frost action	1.00 1.00 0.50	Very limited Slope Cutbanks cave Too clayey	1.00 0.10 0.03	Very limited Slope Content of large stones	1.00 0.03
Nordicol-----	35	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope Content of large stones Cutbanks cave	1.00 1.00 0.10	Very limited Slope	1.00
730: Baird Hollow-----	35	Very limited Slope Shrink-swell Frost action Content of large stones	1.00 0.50 0.50 0.01	Very limited Slope Cutbanks cave Content of large stones	1.00 0.10 0.01	Very limited Slope	1.00
Nordicol-----	30	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope Content of large stones Cutbanks cave	1.00 1.00 0.10	Very limited Slope Droughty	1.00 0.07
Ryman-----	25	Very limited Slope Shrink-swell Frost action	1.00 0.50 0.50	Very limited Slope Cutbanks cave	1.00 0.10	Very limited Slope	1.00
731: Ryman-----	60	Somewhat limited Shrink-swell Frost action	0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
Adel-----	30	Somewhat limited Frost action	0.50	Somewhat limited Cutbanks cave	0.10	Not limited	

Table 16.--Building site development--Continued

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
732: Adel-----	50	Very limited Slope Frost action	1.00 0.50	Very limited Slope Cutbanks cave	1.00 0.10	Very limited Slope	1.00
Quazar-----	40	Very limited Slope Content of large stones Frost action	1.00 0.97 0.50	Very limited Slope Cutbanks cave Content of large stones	1.00 1.00 0.97	Very limited Slope Content of large stones Droughty	1.00 1.00 0.94
733: Adel-----	70	Very limited Slope Frost action	1.00 0.50	Very limited Slope Cutbanks cave	1.00 0.10	Very limited Slope	1.00
Bucklon-----	20	Very limited Depth to soft bedrock Slope	1.00 1.00	Very limited Depth to soft bedrock Slope Cutbanks cave	1.00 1.00 0.10	Very limited Depth to bedrock Slope Droughty	1.00 1.00 0.96
734: Ryman-----	60	Somewhat limited Shrink-swell Frost action	0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
Clayburn-----	30	Somewhat limited Frost action	0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
740: Cowtown-----	50	Very limited Shrink-swell Slope Frost action	1.00 1.00 0.50	Very limited Slope Cutbanks cave Too clayey	1.00 0.10 0.03	Very limited Slope Content of large stones	1.00 0.08
Scout-----	30	Very limited Content of large stones Slope Frost action	1.00 1.00 0.50	Very limited Content of large stones Slope Cutbanks cave	1.00 1.00 0.10	Very limited Slope Droughty	1.00 0.09

Table 16.--Building site development--Continued

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
741: Cowtown-----	45	Very limited Slope Shrink-swell Frost action	1.00 1.00 0.50	Very limited Slope Cutbanks cave Too clayey	1.00 0.10 0.03	Very limited Slope Content of large stones	1.00 0.08
Scout-----	35	Very limited Slope Content of large stones Frost action	1.00 1.00 0.50	Very limited Slope Content of large stones Cutbanks cave	1.00 1.00 0.10	Very limited Slope Droughty	1.00 0.09
750: Archuleta-----	50	Very limited Depth to soft bedrock Slope	1.00 1.00	Very limited Depth to soft bedrock Slope Cutbanks cave	1.00 1.00 0.10	Very limited Depth to bedrock Slope Content of large stones Droughty	1.00 1.00 1.00 0.83
Sheek-----	35	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope Content of large stones Cutbanks cave	1.00 1.00 0.10	Very limited Slope Droughty	1.00 0.01
801: Fughes-----	50	Very limited Slope Shrink-swell	1.00 0.50	Very limited Slope Too clayey Cutbanks cave	1.00 0.28 0.10	Very limited Slope Content of large stones	1.00 0.20
Sheek-----	35	Very limited Slope Content of large stones	1.00 0.47	Very limited Slope Content of large stones Cutbanks cave	1.00 0.47 0.10	Very limited Slope Content of large stones	1.00 1.00

Table 16.--Building site development--Continued

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
802: Argiustolls-----	30	Very limited Slope Content of large stones Shrink-swell	1.00 1.00 0.50	Very limited Slope Content of large stones Too clayey Cutbanks cave	1.00 1.00 0.50 0.10	Very limited Slope	1.00
Haplustalfs-----	30	Very limited Slope Content of large stones Shrink-swell	1.00 1.00 0.50	Very limited Slope Content of large stones Cutbanks cave	1.00 1.00 0.10	Very limited Slope Content of large stones Droughty	1.00 1.00 0.09
Rock outcrop-----	25	Not rated		Not rated		Not rated	
804: Wauquie-----	40	Very limited Slope Content of large stones Frost action	1.00 0.95 0.50	Very limited Slope Cutbanks cave Content of large stones	1.00 1.00 0.95	Very limited Slope Content of large stones	1.00 1.00
Dolcan-----	25	Very limited Slope Depth to soft bedrock Frost action Content of large stones	1.00 1.00 0.50 0.01	Very limited Depth to soft bedrock Slope Cutbanks cave Content of large stones	1.00 1.00 0.10 0.01	Very limited Depth to bedrock Slope Content of large stones Droughty	1.00 1.00 1.00 0.90
Rock outcrop-----	20	Not rated		Not rated		Not rated	
805: Shawa-----	50	Very limited Slope Frost action	1.00 0.50	Very limited Slope Cutbanks cave	1.00 0.10	Very limited Slope	1.00
Fughes-----	40	Very limited Slope Shrink-swell	1.00 0.50	Very limited Slope Cutbanks cave Too clayey	1.00 0.10 0.03	Very limited Slope	1.00

Table 16.--Building site development--Continued

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
806: Shawa-----	45	Very limited Slope Frost action	1.00 0.50	Very limited Slope Cutbanks cave	1.00 0.10	Very limited Slope	1.00
Fughes-----	35	Very limited Slope Shrink-swell	1.00 0.50	Very limited Slope Too clayey Cutbanks cave	1.00 0.28 0.10	Very limited Slope	1.00
809: Argiustolls-----	45	Very limited Slope Content of large stones Shrink-swell	1.00 1.00 0.50	Very limited Slope Content of large stones Too clayey Cutbanks cave	1.00 1.00 0.50 0.10	Very limited Slope	1.00
Haplustalfs-----	40	Very limited Slope Content of large stones Shrink-swell	1.00 1.00 0.50	Very limited Slope Content of large stones Cutbanks cave	1.00 1.00 0.10	Very limited Slope Content of large stones Droughty	1.00 1.00 0.09
813: Fughes-----	80	Very limited Slope Shrink-swell	1.00 0.50	Very limited Slope Too clayey Cutbanks cave	1.00 0.28 0.10	Very limited Slope Content of large stones	1.00 0.01
814: Leaps-----	50	Very limited Shrink-swell Slope	1.00 1.00	Very limited Slope Cutbanks cave Too clayey	1.00 0.10 0.03	Very limited Slope	1.00
Hofly-----	35	Very limited Slope Shrink-swell	1.00 0.50	Very limited Slope Cutbanks cave	1.00 0.10	Very limited Slope	1.00

Table 16.--Building site development--Continued

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
815: Behanco-----	45	Somewhat limited Frost action	0.50	Very limited Cutbanks cave Too clayey	1.00 0.50	Somewhat limited Droughty	0.03
Powderhorn family---	40	Somewhat limited Frost action	0.50	Somewhat limited Too clayey Cutbanks cave	0.50 0.10	Not limited	
816: Storm-----	85	Very limited Slope Content of large stones Frost action	1.00 1.00 0.50	Very limited Slope Cutbanks cave Content of large stones	1.00 1.00 1.00	Very limited Slope Droughty	1.00 0.33
826: Ute-----	50	Very limited Shrink-swell Depth to saturated zone Frost action	1.00 0.99 0.50	Very limited Depth to saturated zone Cutbanks cave Too clayey	1.00 0.10 0.03	Very limited Depth to saturated zone	0.99
Frisco-----	40	Very limited Content of large stones Slope Frost action	0.99 0.84 0.50	Very limited Content of large stones Slope Cutbanks cave	0.99 0.84 0.10	Somewhat limited Slope	0.84
830: Dressel-----	55	Very limited Slope Content of large stones Frost action	1.00 0.90 0.50	Very limited Slope Content of large stones Cutbanks cave	1.00 0.90 0.10	Very limited Slope Droughty	1.00 0.01
Jersey-----	30	Very limited Slope Content of large stones Shrink-swell Frost action	1.00 1.00 0.50 0.50	Very limited Slope Content of large stones Cutbanks cave	1.00 1.00 0.10	Very limited Slope Droughty	1.00 0.02

Table 16.--Building site development--Continued

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
832: Storm-----	85	Very limited Content of large stones Frost action	1.00 0.50	Very limited Cutbanks cave Content of large stones	1.00 1.00	Somewhat limited Droughty	0.33
834: Haycamp-----	60	Very limited Slope Shrink-swell Frost action	1.00 1.00 0.50	Very limited Slope Cutbanks cave Too clayey	1.00 1.00 0.28	Very limited Slope	1.00
Jersey-----	25	Very limited Slope Content of large stones Shrink-swell Frost action	1.00 1.00 0.50 0.50	Very limited Slope Content of large stones Cutbanks cave	1.00 1.00 0.10	Very limited Slope Droughty	1.00 0.02
835: Brumley-----	85	Somewhat limited Frost action	0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
860: Granath-----	55	Somewhat limited Frost action	0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
Nortez-----	30	Very limited Shrink-swell Depth to hard bedrock	1.00 0.29	Very limited Depth to hard bedrock Cutbanks cave	1.00 0.10	Somewhat limited Depth to bedrock	0.29
861: Morapos-----	80	Somewhat limited Frost action	0.50	Somewhat limited Cutbanks cave Too clayey	0.10 0.03	Not limited	
862: Granath-----	40	Somewhat limited Frost action	0.50	Somewhat limited Cutbanks cave	0.10	Not limited	

Table 16.--Building site development--Continued

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
862: Dolores-----	25	Very limited Content of large stones	1.00	Very limited Content of large stones Too clayey Cutbanks cave	1.00 0.28 0.10	Somewhat limited Droughty	0.16
Fivepine-----	20	Very limited Depth to hard bedrock Shrink-swell Content of large stones	1.00 0.50 0.32	Very limited Depth to hard bedrock Content of large stones Cutbanks cave	1.00 0.32 0.10	Very limited Depth to bedrock Droughty Content of large stones	1.00 1.00 1.00
863: Granath-----	40	Somewhat limited Frost action	0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
Ormiston-----	25	Very limited Content of large stones Shrink-swell	1.00 0.50	Very limited Content of large stones Depth to hard bedrock Cutbanks cave	1.00 0.88 0.10	Somewhat limited Content of large stones	0.03
Fivepine-----	20	Very limited Depth to hard bedrock Shrink-swell Content of large stones	1.00 0.50 0.32	Very limited Depth to hard bedrock Content of large stones Cutbanks cave	1.00 0.32 0.10	Very limited Depth to bedrock Droughty Content of large stones	1.00 1.00 1.00
890: Tamarron-----	45	Very limited Slope Content of large stones	1.00 0.93	Very limited Slope Content of large stones Cutbanks cave Depth to soft bedrock	1.00 0.93 0.10 0.01	Very limited Slope Depth to bedrock	1.00 0.01

Table 16.--Building site development--Continued

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
890: Frisco-----	35	Very limited Slope Content of large stones Frost action	1.00 0.99 0.50	Very limited Slope Content of large stones Cutbanks cave	1.00 0.99 0.10	Very limited Slope	1.00
891: Tamarron-----	45	Very limited Slope Content of large stones	1.00 0.93	Very limited Slope Content of large stones Cutbanks cave Depth to soft bedrock	1.00 0.93 0.10 0.01	Very limited Slope Depth to bedrock	1.00 0.01
Frisco-----	40	Very limited Slope Content of large stones Frost action	1.00 0.99 0.50	Very limited Slope Content of large stones Cutbanks cave	1.00 0.99 0.10	Very limited Slope	1.00
901: Granath-----	45	Somewhat limited Frost action	0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
Zoltay-----	25	Somewhat limited Shrink-swell	0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
Nortez-----	20	Very limited Shrink-swell Depth to hard bedrock	1.00 0.29	Very limited Depth to hard bedrock Cutbanks cave	1.00 0.10	Somewhat limited Depth to bedrock	0.29
903: Anvik-----	85	Very limited Slope Frost action	1.00 0.50	Very limited Slope Cutbanks cave	1.00 0.10	Very limited Slope	1.00

Table 16.--Building site development--Continued

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
904: Beje-----	85	Very limited Depth to hard bedrock Slope	1.00 0.96	Very limited Depth to hard bedrock Slope Cutbanks cave	1.00 0.96 0.10	Very limited Depth to bedrock Droughty Slope	1.00 0.98 0.96
905: Cryaquolls-----	95	Very limited Frost action Flooding Depth to saturated zone	1.00 1.00 0.99	Very limited Depth to saturated zone Flooding Cutbanks cave	1.00 0.60 0.10	Somewhat limited Depth to saturated zone Flooding Droughty	0.99 0.60 0.01
906: Archuleta-----	80	Very limited Depth to soft bedrock Slope	1.00 1.00	Very limited Depth to soft bedrock Slope Cutbanks cave	1.00 1.00 0.10	Very limited Depth to bedrock Slope Droughty Content of large stones	1.00 1.00 0.91 0.01
907: Archuleta-----	45	Very limited Depth to soft bedrock Slope	1.00 1.00	Very limited Depth to soft bedrock Slope Cutbanks cave	1.00 1.00 0.10	Very limited Depth to bedrock Slope Droughty Content of large stones	1.00 1.00 0.93 0.01
Sanchez-----	30	Very limited Depth to hard bedrock Slope Content of large stones	1.00 1.00 1.00	Very limited Depth to hard bedrock Slope Content of large stones Cutbanks cave	1.00 1.00 1.00 0.10	Very limited Depth to bedrock Content of large stones Droughty Slope	1.00 1.00 1.00 1.00
908: Adel-----	85	Very limited Slope Frost action	1.00 0.50	Very limited Slope Cutbanks cave	1.00 0.10	Very limited Slope	1.00

Table 16.--Building site development--Continued

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
909: Adel-----	90	Very limited Slope Frost action	1.00 0.50	Very limited Slope Cutbanks cave	1.00 0.10	Very limited Slope	1.00
917: Chris-----	85	Very limited Slope Content of large stones Frost action	1.00 0.73 0.50	Very limited Cutbanks cave Slope Content of large stones	1.00 1.00 0.73	Very limited Slope	1.00
919: Clayburn-----	90	Somewhat limited Frost action	0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
920: Clayburn-----	85	Very limited Slope Frost action	1.00 0.50	Very limited Slope Cutbanks cave	1.00 0.10	Very limited Content of large stones Slope	1.00 1.00
926: Ustolls-----	45	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope Content of large stones Too clayey Cutbanks cave	1.00 1.00 0.12 0.10	Very limited Slope Content of large stones	1.00 1.00
Rock outcrop-----	40	Not rated		Not rated		Not rated	
930: Furtlewis-----	45	Very limited Slope Shrink-swell Depth to hard bedrock	1.00 0.50 0.01	Very limited Depth to hard bedrock Slope Cutbanks cave	1.00 1.00 0.10	Very limited Slope Depth to bedrock	1.00 0.01
Rock outcrop-----	35	Not rated		Not rated		Not rated	

Table 16.--Building site development--Continued

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
934: Ceek-----	85	Very limited Shrink-swell Slope Content of large stones	1.00 1.00 0.16	Very limited Slope Content of large stones Too clayey Cutbanks cave	1.00 0.16 0.12 0.10	Very limited Slope	1.00
937: Herm-----	85	Very limited Shrink-swell Slope	1.00 1.00	Very limited Slope Cutbanks cave	1.00 0.10	Very limited Slope	1.00
939: Ohwiler-----	90	Somewhat limited Frost action	0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
940: Horsethief-----	85	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope Content of large stones Cutbanks cave	1.00 1.00 0.10	Very limited Slope	1.00
942: Fivepine-----	50	Very limited Depth to hard bedrock Shrink-swell Content of large stones	1.00 0.50 0.06	Very limited Depth to hard bedrock Cutbanks cave Content of large stones	1.00 0.10 0.06	Very limited Depth to bedrock Droughty Content of large stones	1.00 1.00 0.03
Pino-----	35	Very limited Shrink-swell Depth to hard bedrock	1.00 0.15	Very limited Depth to hard bedrock Too clayey Cutbanks cave	1.00 0.12 0.10	Somewhat limited Depth to bedrock	0.16

Table 16.--Building site development--Continued

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
945: Nizhoni-----	35	Very limited Depth to hard bedrock Slope	1.00 1.00	Very limited Depth to hard bedrock Slope Cutbanks cave	1.00 1.00 0.10	Very limited Depth to bedrock Droughty Slope Content of large stones	1.00 1.00 1.00 0.03
Arabrab-----	30	Very limited Depth to hard bedrock Shrink-swell	1.00 0.50	Very limited Depth to hard bedrock Cutbanks cave	1.00 0.10	Very limited Depth to bedrock Droughty	1.00 0.77
Rock outcrop-----	30	Not rated		Not rated		Not rated	
950: Pescar-----	80	Very limited Frost action Flooding Depth to saturated zone	1.00 1.00 0.94	Very limited Depth to saturated zone Cutbanks cave Flooding	1.00 1.00 0.80	Very limited Flooding Depth to saturated zone Droughty	1.00 0.94 0.08
951: Endoaquolls-----	90	Very limited Flooding Depth to saturated zone	1.00 0.99	Very limited Depth to saturated zone Cutbanks cave Flooding	1.00 1.00 0.80	Very limited Flooding Depth to saturated zone Droughty Content of large stones	1.00 0.99 0.01 0.01
955: Umbarg-----	35	Somewhat limited Frost action Flooding	0.50 0.40	Very limited Cutbanks cave Depth to saturated zone	1.00 0.63	Not limited	
Winner-----	30	Very limited Frost action Depth to saturated zone Flooding	1.00 0.94 0.40	Very limited Depth to saturated zone Cutbanks cave	1.00 0.10	Somewhat limited Depth to saturated zone Content of large stones	0.94 0.01

Table 16.--Building site development--Continued

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
955: Tesaño-----	20	Very limited Content of large stones Frost action Flooding	1.00 0.50 0.40	Very limited Cutbanks cave Content of large stones Depth to saturated zone	1.00 1.00 0.16	Somewhat limited Droughty Gravel content Content of large stones	0.99 0.52 0.11
956: Ormiston-----	50	Very limited Content of large stones Shrink-swell	1.00 0.50	Very limited Content of large stones Depth to hard bedrock Cutbanks cave	1.00 0.88 0.10	Very limited Content of large stones Droughty	1.00 0.01
Granath-----	35	Somewhat limited Frost action	0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
958: Sheek-----	35	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope Content of large stones Cutbanks cave	1.00 1.00 0.10	Very limited Slope	1.00
Archuleta-----	30	Very limited Slope Depth to soft bedrock Content of large stones	1.00 1.00 0.93	Very limited Depth to soft bedrock Slope Content of large stones Cutbanks cave	1.00 1.00 0.93 0.10	Very limited Depth to bedrock Slope Droughty	1.00 1.00 0.95
Rock outcrop-----	20	Not rated		Not rated		Not rated	
959: Granath-----	90	Somewhat limited Frost action	0.50	Somewhat limited Cutbanks cave	0.10	Not limited	

Table 16.--Building site development--Continued

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
965: Narraguinnep-----	55	Somewhat limited Shrink-swell	0.99	Somewhat limited Cutbanks cave Too clayey	0.10 0.03	Not limited	
Dapoin-----	30	Somewhat limited Shrink-swell	0.50	Somewhat limited Cutbanks cave Too clayey	0.10 0.03	Not limited	
966: Cryaquepts-----	85	Very limited Frost action Flooding Depth to saturated zone Depth to hard bedrock Content of large stones	1.00 1.00 0.99 0.64 0.25	Very limited Depth to hard bedrock Depth to saturated zone Flooding Content of large stones Cutbanks cave	1.00 1.00 0.80 0.25 0.10	Very limited Flooding Depth to saturated zone Depth to bedrock Droughty	1.00 0.99 0.65 0.51
967: Quazar-----	40	Very limited Slope Content of large stones Frost action	1.00 0.97 0.50	Very limited Cutbanks cave Slope Content of large stones	1.00 1.00 0.97	Very limited Content of large stones Slope Droughty	1.00 1.00 0.94
Cryaquolls-----	25	Very limited Frost action Flooding Depth to saturated zone	1.00 1.00 0.99	Very limited Depth to saturated zone Flooding Cutbanks cave	1.00 0.60 0.10	Somewhat limited Depth to saturated zone Flooding Droughty	0.99 0.60 0.01
Cryohemists-----	20	Very limited Frost action Flooding Subsidence Depth to saturated zone	1.00 1.00 1.00 0.99	Very limited Depth to saturated zone Cutbanks cave Content of organic matter Flooding	1.00 1.00 1.00 1.00 0.80	Very limited Flooding Content of organic matter Depth to saturated zone	1.00 1.00 0.99

Table 16.--Building site development--Continued

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
968: Nortez-----	50	Very limited Shrink-swell Depth to hard bedrock	1.00 0.29	Very limited Depth to hard bedrock Cutbanks cave	1.00 0.10	Somewhat limited Depth to bedrock	0.29
Granath-----	35	Somewhat limited Frost action	0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
969: Nortez-----	45	Very limited Shrink-swell Depth to hard bedrock	1.00 0.29	Very limited Depth to hard bedrock Cutbanks cave	1.00 0.10	Somewhat limited Depth to bedrock	0.29
Fivepine-----	40	Very limited Depth to hard bedrock Shrink-swell Content of large stones	1.00 0.50 0.06	Very limited Depth to hard bedrock Cutbanks cave Content of large stones	1.00 0.10 0.06	Very limited Depth to bedrock Droughty Content of large stones	1.00 1.00 0.03
972: Pagoda-----	35	Very limited Shrink-swell Slope	1.00 1.00	Very limited Slope Cutbanks cave	1.00 0.10	Very limited Slope	1.00
Coulterg-----	30	Very limited Slope Frost action	1.00 0.50	Very limited Slope Cutbanks cave	1.00 0.10	Very limited Slope	1.00
Wiggler-----	20	Very limited Slope Depth to soft bedrock	1.00 1.00	Very limited Depth to soft bedrock Slope Cutbanks cave	1.00 1.00 0.10	Very limited Depth to bedrock Slope Droughty Gravel content	1.00 1.00 1.00 0.14
989: Ryman-----	90	Somewhat limited Shrink-swell Frost action Slope	0.50 0.50 0.04	Somewhat limited Cutbanks cave Slope	0.10 0.04	Somewhat limited Slope	0.04

Table 16.--Building site development--Continued

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
990: Ryman, warm-----	85	Somewhat limited Shrink-swell Frost action Slope	0.50 0.50 0.04	Somewhat limited Cutbanks cave Slope	0.10 0.04	Somewhat limited Slope	0.04
992: Gladlow-----	85	Somewhat limited Slope Shrink-swell	0.63 0.50	Somewhat limited Slope Cutbanks cave	0.63 0.10	Somewhat limited Slope	0.63
996: Zoltay-----	85	Somewhat limited Shrink-swell Slope	0.50 0.04	Somewhat limited Cutbanks cave Slope	0.10 0.04	Somewhat limited Slope	0.04
997: Zigzag-----	40	Very limited Slope Depth to soft bedrock Shrink-swell	1.00 1.00 0.50	Very limited Depth to soft bedrock Slope Cutbanks cave	1.00 1.00 0.10	Very limited Depth to bedrock Slope Droughty Content of large stones	1.00 1.00 0.80 0.01
Bodot-----	25	Very limited Slope Shrink-swell	1.00 1.00	Very limited Slope Cutbanks cave Depth to soft bedrock	1.00 0.10 0.01	Very limited Slope Depth to bedrock	1.00 0.01
Rock outcrop-----	25	Not rated		Not rated		Not rated	

Table 17.--Sanitary facilities

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the limitation. See text for further explanation of ratings in this table.)

Map symbol and soil name	Pct. of map unit	Septic tank absorption fields		Sewage lagoons	
		Rating class and limiting features	Value	Rating class and limiting features	Value
1: Bradfield-----	45	Very limited Restricted permeability	1.00	Somewhat limited Slope	0.08
Narraguinnep-----	40	Very limited Restricted permeability	1.00	Somewhat limited Slope	0.08
2: Hesperus-----	85	Very limited Restricted permeability Depth to saturated zone	1.00 0.65	Somewhat limited Seepage Depth to saturated zone	0.28 0.02
10: Lillings-----	85	Very limited Restricted permeability Flooding	1.00 0.40	Somewhat limited Flooding Slope	0.40 0.08
12: Shawa-----	80	Very limited Restricted permeability	1.00	Somewhat limited Seepage Slope	0.53 0.08
13: Fughes-----	85	Very limited Restricted permeability	1.00	Very limited Slope	1.00
14: Dalmatian-----	35	Very limited Seepage Depth to saturated zone Restricted permeability Flooding	1.00 0.99 0.46 0.40	Very limited Seepage Depth to saturated zone Flooding Slope	1.00 0.75 0.40 0.08
Apmay-----	35	Very limited Depth to saturated zone Filtering capacity Seepage Flooding	1.00 1.00 1.00 0.40	Very limited Seepage Depth to saturated zone Flooding Slope	1.00 1.00 0.40 0.08

Table 17.--Sanitary facilities--Continued

Map symbol and soil name	Pct. of map unit	Septic tank absorption fields		Sewage lagoons	
		Rating class and limiting features	Value	Rating class and limiting features	Value
14: Schrader-----	15	Very limited Flooding Depth to saturated zone Seepage Restricted permeability	1.00 1.00 1.00 0.46	Very limited Flooding Seepage Depth to saturated zone Slope	1.00 1.00 1.00 0.08
15: Umbarg-----	80	Very limited Restricted permeability Depth to saturated zone Flooding	1.00 0.99 0.40	Somewhat limited Depth to saturated zone Seepage Flooding Slope	0.71 0.53 0.40 0.08
16: Payter-----	85	Very limited Seepage Slope	1.00 0.04	Very limited Seepage Slope	1.00 1.00
17: Fluvaquents-----	55	Very limited Flooding Depth to saturated zone Filtering capacity Seepage	1.00 1.00 1.00 1.00	Very limited Flooding Seepage Depth to saturated zone Slope	1.00 1.00 1.00 0.08
Haplustolls-----	30	Very limited Filtering capacity Seepage Flooding Depth to saturated zone	1.00 1.00 0.40 0.08	Very limited Seepage Flooding Slope	1.00 0.40 0.08
18: Endoaquolls-----	45	Very limited Flooding Depth to saturated zone Filtering capacity Seepage	1.00 1.00 1.00 1.00	Very limited Flooding Seepage Depth to saturated zone Slope	1.00 1.00 1.00 0.08
Ustifluvents-----	40	Very limited Flooding Filtering capacity Seepage Depth to saturated zone Restricted permeability	1.00 1.00 1.00 0.99 0.46	Very limited Flooding Seepage Depth to saturated zone Slope	1.00 1.00 0.75 0.08

Table 17.--Sanitary facilities--Continued

Map symbol and soil name	Pct. of map unit	Septic tank absorption fields		Sewage lagoons	
		Rating class and limiting features	Value	Rating class and limiting features	Value
20: Mavreeso-----	75	Very limited Slope Restricted permeability	1.00 0.46	Very limited Slope Seepage	1.00 0.53
51: Clayburn-----	55	Very limited Restricted permeability Slope	1.00 1.00	Very limited Slope Seepage	1.00 0.53
Hourglass-----	35	Very limited Restricted permeability Slope	1.00 1.00	Very limited Slope Seepage	1.00 0.28
52: Ohwiler-----	80	Very limited Slope Restricted permeability	1.00 0.99	Very limited Slope Seepage	1.00 0.53
53: Cryaquolls-----	50	Very limited Flooding Depth to saturated zone Seepage	1.00 1.00 1.00	Very limited Flooding Depth to saturated zone Seepage Slope	1.00 1.00 1.00 0.08
Typic Cryaquents----	35	Very limited Flooding Depth to saturated zone Filtering capacity Seepage Content of large stones	1.00 1.00 1.00 1.00 0.01	Very limited Flooding Seepage Depth to saturated zone Slope	1.00 1.00 1.00 0.08
54: Quazar-----	90	Very limited Content of large stones Restricted permeability Slope	1.00 0.46 0.16	Very limited Slope Content of large stones Seepage	1.00 1.00 0.53
56: Typic Cryaquents----	35	Very limited Flooding Depth to saturated zone Filtering capacity Seepage Content of large stones	1.00 1.00 1.00 1.00 0.01	Very limited Flooding Seepage Depth to saturated zone Slope	1.00 1.00 1.00 0.08

Table 17.--Sanitary facilities--Continued

Map symbol and soil name	Pct. of map unit	Septic tank absorption fields		Sewage lagoons	
		Rating class and limiting features	Value	Rating class and limiting features	Value
56: Cryaquolls-----	30	Very limited Flooding Depth to saturated zone Seepage	1.00 1.00 1.00	Very limited Flooding Depth to saturated zone Seepage Slope	1.00 1.00 1.00 0.08
Cryofibrists-----	25	Very limited Flooding Depth to saturated zone Subsidence Seepage	1.00 1.00 1.00 1.00	Very limited Flooding Content of organic matter Depth to saturated zone Seepage Slope	1.00 1.00 1.00 1.00 0.08
57: Howardsville-----	80	Very limited Filtering capacity Seepage Content of large stones	1.00 1.00 1.00	Very limited Seepage Content of large stones Slope	1.00 1.00 0.32
58: Fughes-----	55	Very limited Restricted permeability Slope	1.00 1.00	Very limited Slope	1.00
Herm-----	35	Very limited Restricted permeability Slope	1.00 1.00	Very limited Slope	1.00
59: Fughes-----	45	Very limited Restricted permeability Slope	1.00 1.00	Very limited Slope Content of large stones	1.00 0.22
Herm-----	35	Very limited Restricted permeability Slope	1.00 1.00	Very limited Slope Content of large stones	1.00 0.15
60: Grimes-----	90	Very limited Filtering capacity Seepage Content of large stones	1.00 1.00 0.99	Very limited Seepage Content of large stones	1.00 1.00

Table 17.--Sanitary facilities--Continued

Map symbol and soil name	Pct. of map unit	Septic tank absorption fields		Sewage lagoons	
		Rating class and limiting features	Value	Rating class and limiting features	Value
110: Sheek-----	45	Very limited Restricted permeability Slope Content of large stones	1.00 1.00 0.47	Very limited Slope Content of large stones Seepage	1.00 1.00 0.53
Ormiston-----	35	Very limited Restricted permeability Content of large stones Depth to bedrock	1.00 0.99 0.96	Very limited Content of large stones Slope Depth to hard bedrock	1.00 1.00 0.88
111: Fardraw-----	80	Very limited Restricted permeability Content of large stones Slope	1.00 0.71 0.04	Very limited Slope Content of large stones	1.00 0.09
113: Dolores-----	80	Very limited Restricted permeability Filtering capacity Slope Content of large stones	1.00 1.00 1.00 1.00	Very limited Slope Content of large stones	1.00 1.00
150: Silex-----	70	Very limited Depth to bedrock Filtering capacity Slope	1.00 1.00 1.00	Very limited Depth to hard bedrock Slope	1.00 1.00
Rock outcrop-----	20	Not rated		Not rated	
151: Frisco-----	80	Very limited Filtering capacity Slope Content of large stones Restricted permeability	1.00 1.00 0.99 0.46	Very limited Slope Seepage	1.00 0.53

Table 17.--Sanitary facilities--Continued

Map symbol and soil name	Pct. of map unit	Septic tank absorption fields		Sewage lagoons	
		Rating class and limiting features	Value	Rating class and limiting features	Value
152: Frisco-----	80	Very limited Filtering capacity Slope Content of large stones Restricted permeability	1.00 1.00 0.99 0.46	Very limited Slope Seepage	1.00 0.53
153: Frisco-----	50	Very limited Filtering capacity Slope Content of large stones Restricted permeability	1.00 1.00 0.99 0.72	Very limited Slope Seepage	1.00 0.53
Horsethief-----	30	Very limited Filtering capacity Restricted permeability Slope	1.00 1.00 1.00	Very limited Slope Seepage	1.00 1.00
154: Frisco-----	60	Very limited Filtering capacity Slope Content of large stones Restricted permeability	1.00 1.00 0.99 0.72	Very limited Slope Seepage	1.00 0.53
Horsethief-----	25	Very limited Filtering capacity Slope Restricted permeability	1.00 1.00 1.00	Very limited Slope Seepage	1.00 1.00
155: Tuckerville-----	70	Very limited Filtering capacity Slope Seepage Content of large stones Restricted permeability	1.00 1.00 1.00 1.00 0.46	Very limited Slope Seepage Content of large stones	1.00 1.00 1.00
Rock outcrop-----	20	Not rated		Not rated	

Table 17.--Sanitary facilities--Continued

Map symbol and soil name	Pct. of map unit	Septic tank absorption fields		Sewage lagoons	
		Rating class and limiting features	Value	Rating class and limiting features	Value
156: Sponsor-----	60	Very limited Filtering capacity Slope Restricted permeability	1.00 1.00 1.00	Very limited Slope	1.00
Tuckerville-----	30	Very limited Filtering capacity Slope Seepage Content of large stones Restricted permeability	1.00 1.00 1.00 0.99 0.46	Very limited Slope Seepage Content of large stones	1.00 1.00 0.25
157: Sponsor-----	60	Very limited Filtering capacity Slope Restricted permeability	1.00 1.00 1.00	Very limited Slope	1.00
Tuckerville-----	30	Very limited Filtering capacity Slope Seepage Content of large stones Restricted permeability	1.00 1.00 1.00 0.99 0.46	Very limited Slope Seepage Content of large stones	1.00 1.00 0.53
158: Sponsor-----	60	Very limited Filtering capacity Slope Restricted permeability	1.00 1.00 1.00	Very limited Slope	1.00
Tuckerville-----	30	Very limited Filtering capacity Slope Seepage Content of large stones Restricted permeability	1.00 1.00 1.00 0.99 0.46	Very limited Slope Seepage Content of large stones	1.00 1.00 0.25

Table 17.--Sanitary facilities--Continued

Map symbol and soil name	Pct. of map unit	Septic tank absorption fields		Sewage lagoons	
		Rating class and limiting features	Value	Rating class and limiting features	Value
159: Tuckerville-----	80	Very limited Filtering capacity Slope Seepage Content of large stones Restricted permeability	1.00 1.00 1.00 1.00 0.46	Very limited Slope Seepage Content of large stones	1.00 1.00 1.00
160: Anvik-----	40	Very limited Filtering capacity Slope Restricted permeability	1.00 1.00 0.46	Very limited Slope Seepage	1.00 1.00
Tuckerville-----	35	Very limited Filtering capacity Seepage Slope Content of large stones Restricted permeability	1.00 1.00 1.00 0.99 0.46	Very limited Slope Seepage Content of large stones	1.00 1.00 0.53
161: Needleton-----	85	Very limited Filtering capacity Restricted permeability Content of large stones Slope	1.00 1.00 1.00 0.16	Very limited Slope Content of large stones Seepage	1.00 0.53 0.53
162: Quazar-----	45	Very limited Slope Content of large stones Restricted permeability	1.00 0.99 0.46	Very limited Slope Content of large stones Seepage	1.00 1.00 0.53
Varden-----	40	Very limited Filtering capacity Slope Seepage Content of large stones	1.00 1.00 1.00 1.00	Very limited Slope Seepage Content of large stones	1.00 1.00 1.00
163: Clayburn-----	50	Very limited Slope Restricted permeability	1.00 1.00	Very limited Slope Seepage	1.00 0.53

Table 17.--Sanitary facilities--Continued

Map symbol and soil name	Pct. of map unit	Septic tank absorption fields		Sewage lagoons	
		Rating class and limiting features	Value	Rating class and limiting features	Value
163: Hourglass-----	35	Very limited Slope Restricted permeability	1.00 1.00	Very limited Slope Seepage	1.00 0.32
164: Hourglass-----	50	Very limited Slope Restricted permeability	1.00 1.00	Very limited Slope Seepage	1.00 0.32
Bucklon-----	25	Very limited Depth to bedrock Slope	1.00 1.00	Very limited Depth to soft bedrock Slope	1.00 1.00
Wander-----	15	Very limited Slope Restricted permeability Content of large stones	1.00 1.00 1.00	Very limited Slope Content of large stones	1.00 1.00
165: Pinacol-----	85	Very limited Restricted permeability Filtering capacity Content of large stones	1.00 1.00 1.00	Very limited Slope Seepage Content of large stones	1.00 0.53 0.29
166: Pinacol-----	80	Very limited Restricted permeability Filtering capacity Slope Content of large stones	1.00 1.00 1.00 1.00	Very limited Slope Seepage Content of large stones	1.00 0.53 0.08
250: Snowdon-----	55	Very limited Depth to bedrock Filtering capacity Slope Content of large stones	1.00 1.00 1.00 1.00	Very limited Depth to hard bedrock Slope Seepage Content of large stones	1.00 1.00 1.00 1.00
Rock outcrop-----	25	Not rated		Not rated	
251: Rock outcrop-----	60	Not rated		Not rated	

Table 17.--Sanitary facilities--Continued

Map symbol and soil name	Pct. of map unit	Septic tank absorption fields		Sewage lagoons	
		Rating class and limiting features	Value	Rating class and limiting features	Value
251: Snowdon-----	25	Very limited Depth to bedrock Filtering capacity Slope Content of large stones	1.00 1.00 1.00 1.00	Very limited Depth to hard bedrock Slope Seepage Content of large stones	1.00 1.00 1.00 1.00
254: Typic Cryorthents---	50	Very limited Slope Content of large stones Seepage	1.00 1.00 1.00	Very limited Slope Content of large stones Seepage	1.00 1.00 1.00
Rubble land-----	30	Not rated		Very limited Slope Content of large stones	1.00 1.00
330: Needleton-----	85	Very limited Filtering capacity Slope Restricted permeability Content of large stones	1.00 1.00 1.00 1.00	Very limited Slope Content of large stones Seepage	1.00 1.00 0.53
331: Needleton-----	80	Very limited Filtering capacity Slope Restricted permeability Content of large stones	1.00 1.00 1.00 1.00	Very limited Slope Content of large stones Seepage	1.00 1.00 0.53
332: Horsethief-----	55	Very limited Filtering capacity Slope Restricted permeability Content of large stones	1.00 1.00 1.00 1.00	Very limited Slope Content of large stones Seepage	1.00 1.00 1.00
Needleton-----	35	Very limited Filtering capacity Slope Restricted permeability Content of large stones	1.00 1.00 1.00 1.00	Very limited Slope Content of large stones Seepage	1.00 1.00 0.53

Table 17.--Sanitary facilities--Continued

Map symbol and soil name	Pct. of map unit	Septic tank absorption fields		Sewage lagoons	
		Rating class and limiting features	Value	Rating class and limiting features	Value
333: Henson, south aspect	85	Very limited Filtering capacity Content of large stones Slope Restricted permeability	1.00 1.00 1.00 0.46	Very limited Slope Content of large stones Seepage	1.00 1.00 0.53
334: Henson, south aspect	80	Very limited Filtering capacity Slope Content of large stones Restricted permeability	1.00 1.00 1.00 0.46	Very limited Slope Content of large stones Seepage	1.00 1.00 0.53
335: Whitecross-----	55	Very limited Depth to bedrock Filtering capacity Slope Seepage Content of large stones	1.00 1.00 1.00 1.00 1.00	Very limited Depth to hard bedrock Slope Seepage Content of large stones	1.00 1.00 1.00 1.00
Rock outcrop-----	30	Not rated		Not rated	
336: Whitecross, south aspect-----	50	Very limited Depth to bedrock Filtering capacity Slope Seepage Content of large stones	1.00 1.00 1.00 1.00 1.00	Very limited Depth to hard bedrock Slope Seepage Content of large stones	1.00 1.00 1.00 1.00
Rock outcrop-----	25	Not rated		Not rated	
337: Whitecross-----	60	Very limited Depth to bedrock Filtering capacity Slope Seepage Content of large stones	1.00 1.00 1.00 1.00 1.00	Very limited Depth to hard bedrock Slope Seepage Content of large stones	1.00 1.00 1.00 1.00
Rock outcrop-----	25	Not rated		Not rated	

Table 17.--Sanitary facilities--Continued

Map symbol and soil name	Pct. of map unit	Septic tank absorption fields		Sewage lagoons	
		Rating class and limiting features	Value	Rating class and limiting features	Value
338: Henson-----	80	Very limited Filtering capacity Content of large stones Slope Restricted permeability	1.00 1.00 1.00 0.46	Very limited Slope Content of large stones Seepage	1.00 1.00 0.53
339: Henson-----	80	Very limited Filtering capacity Slope Content of large stones Restricted permeability	1.00 1.00 1.00 0.46	Very limited Slope Content of large stones Seepage	1.00 1.00 0.53
340: Moran-----	80	Very limited Filtering capacity Slope Seepage Content of large stones Restricted permeability	1.00 1.00 1.00 0.99 0.46	Very limited Slope Seepage Content of large stones	1.00 1.00 0.78
341: Moran-----	80	Very limited Filtering capacity Slope Seepage Content of large stones Restricted permeability	1.00 1.00 1.00 0.99 0.46	Very limited Slope Seepage Content of large stones	1.00 1.00 0.78
342: Telluride-----	60	Very limited Depth to bedrock Filtering capacity Slope Seepage Content of large stones	1.00 1.00 1.00 1.00 0.43	Very limited Depth to hard bedrock Slope Seepage Content of large stones	1.00 1.00 1.00 1.00
Rock outcrop-----	20	Not rated		Not rated	

Table 17.--Sanitary facilities--Continued

Map symbol and soil name	Pct. of map unit	Septic tank absorption fields		Sewage lagoons	
		Rating class and limiting features	Value	Rating class and limiting features	Value
343: Telluride-----	60	Very limited Depth to bedrock Filtering capacity Slope Seepage Content of large stones	1.00 1.00 1.00 1.00 1.00 0.43	Very limited Depth to hard bedrock Slope Seepage Content of large stones	1.00 1.00 1.00 1.00 1.00
Rock outcrop-----	25	Not rated		Not rated	
345: Papaspila-----	85	Very limited Restricted permeability Content of large stones	1.00 0.07	Very limited Slope Seepage	1.00 0.53
350: Flygare-----	45	Very limited Filtering capacity Restricted permeability Content of large stones	1.00 1.00 1.00	Very limited Content of large stones Slope Seepage	1.00 1.00 0.53
Foidel-----	40	Very limited Restricted permeability	1.00	Very limited Slope Seepage	1.00 0.53
355: Flygare-----	45	Very limited Filtering capacity Slope Restricted permeability Content of large stones	1.00 1.00 1.00 1.00	Very limited Slope Content of large stones Seepage	1.00 1.00 0.53
Foidel-----	40	Very limited Slope Restricted permeability	1.00 1.00	Very limited Slope Seepage	1.00 0.53
360: Blacksnag-----	45	Very limited Restricted permeability Content of large stones Slope	1.00 1.00 0.04	Very limited Content of large stones Slope Seepage	1.00 1.00 0.53

Table 17.--Sanitary facilities--Continued

Map symbol and soil name	Pct. of map unit	Septic tank absorption fields		Sewage lagoons	
		Rating class and limiting features	Value	Rating class and limiting features	Value
360: Peeler-----	40	Very limited Filtering capacity Restricted permeability Slope	1.00 0.46 0.04	Very limited Slope Seepage	1.00 0.53
361: Blacksnag-----	45	Very limited Slope Restricted permeability Content of large stones	1.00 1.00 1.00	Very limited Slope Content of large stones Seepage	1.00 1.00 0.53
Peeler-----	40	Very limited Filtering capacity Slope Restricted permeability	1.00 1.00 0.46	Very limited Slope Seepage	1.00 0.53
374: Mavreeso-----	35	Very limited Slope Restricted permeability	1.00 0.46	Very limited Slope Seepage	1.00 0.53
Valto-----	30	Very limited Depth to bedrock Filtering capacity Slope Seepage Content of large stones	1.00 1.00 1.00 1.00 1.00	Very limited Depth to hard bedrock Slope Seepage Content of large stones	1.00 1.00 1.00 1.00
Rock outcrop-----	20	Not rated		Not rated	
375: Needleton-----	55	Very limited Filtering capacity Restricted permeability Content of large stones Slope	1.00 1.00 1.00 0.16	Very limited Slope Content of large stones Seepage	1.00 1.00 0.53
Snowdon-----	30	Very limited Depth to bedrock Filtering capacity Content of large stones Slope	1.00 1.00 1.00 0.16	Very limited Depth to hard bedrock Seepage Slope Content of large stones	1.00 1.00 1.00 1.00

Table 17.--Sanitary facilities--Continued

Map symbol and soil name	Pct. of map unit	Septic tank absorption fields		Sewage lagoons	
		Rating class and limiting features	Value	Rating class and limiting features	Value
376: Needleton-----	80	Very limited Filtering capacity Slope Restricted permeability Content of large stones	1.00 1.00 1.00 0.58	Very limited Slope Seepage	1.00 0.53
378: Needleton-----	65	Very limited Filtering capacity Slope Restricted permeability Content of large stones	1.00 1.00 1.00 0.58	Very limited Slope Seepage	1.00 0.53
Haviland-----	25	Very limited Filtering capacity Slope Restricted permeability	1.00 1.00 1.00	Very limited Slope Seepage	1.00 0.53
380: Snowdon-----	50	Very limited Depth to bedrock Filtering capacity Slope Content of large stones	1.00 1.00 1.00 0.99	Very limited Depth to hard bedrock Slope Content of large stones Seepage	1.00 1.00 1.00 1.00
Rock outcrop-----	35	Not rated		Not rated	
381: Needleton-----	45	Very limited Filtering capacity Slope Restricted permeability Content of large stones	1.00 1.00 1.00 1.00	Very limited Slope Content of large stones Seepage	1.00 1.00 0.53
Snowdon-----	30	Very limited Depth to bedrock Filtering capacity Slope Content of large stones	1.00 1.00 1.00 1.00	Very limited Depth to hard bedrock Slope Seepage Content of large stones	1.00 1.00 1.00 1.00
Rock outcrop-----	15	Not rated		Not rated	

Table 17.--Sanitary facilities--Continued

Map symbol and soil name	Pct. of map unit	Septic tank absorption fields		Sewage lagoons	
		Rating class and limiting features	Value	Rating class and limiting features	Value
382: Needleton-----	50	Very limited Filtering capacity Slope Restricted permeability Content of large stones	1.00 1.00 1.00 1.00	Very limited Slope Content of large stones Seepage	1.00 1.00 0.53
Snowdon-----	30	Very limited Depth to bedrock Filtering capacity Slope Content of large stones	1.00 1.00 1.00 1.00	Very limited Depth to hard bedrock Slope Seepage Content of large stones	1.00 1.00 1.00 1.00
383: Haviland-----	50	Very limited Filtering capacity Restricted permeability Slope	1.00 1.00 1.00	Very limited Slope Seepage	1.00 0.53
Needleton-----	35	Very limited Filtering capacity Restricted permeability Slope Content of large stones	1.00 1.00 1.00 1.00	Very limited Slope Content of large stones Seepage	1.00 1.00 0.53
386: Needleton-----	70	Very limited Filtering capacity Slope Restricted permeability Content of large stones	1.00 1.00 1.00 1.00	Very limited Slope Content of large stones Seepage	1.00 1.00 0.53
387: Frisco-----	50	Very limited Filtering capacity Slope Content of large stones Restricted permeability	1.00 1.00 1.00 0.72	Very limited Slope Content of large stones Seepage	1.00 1.00 0.53

Table 17.--Sanitary facilities--Continued

Map symbol and soil name	Pct. of map unit	Septic tank absorption fields		Sewage lagoons	
		Rating class and limiting features	Value	Rating class and limiting features	Value
387: Quazar-----	40	Very limited Slope Content of large stones Restricted permeability	1.00 0.97 0.46	Very limited Slope Content of large stones Seepage	1.00 1.00 0.53
388: Frisco-----	50	Very limited Filtering capacity Slope Content of large stones Restricted permeability	1.00 1.00 1.00 0.72	Very limited Slope Content of large stones Seepage	1.00 0.99 0.53
Quazar-----	45	Very limited Slope Content of large stones Restricted permeability	1.00 0.97 0.46	Very limited Slope Content of large stones Seepage	1.00 1.00 0.53
389: Seitz-----	85	Very limited Restricted permeability Filtering capacity Content of large stones Slope	1.00 1.00 1.00 1.00	Very limited Slope Content of large stones	1.00 1.00
390: Clayburn-----	40	Very limited Slope Restricted permeability	1.00 1.00	Very limited Slope Seepage	1.00 0.53
Heisspitz-----	30	Very limited Depth to bedrock Slope	1.00 1.00	Very limited Depth to hard bedrock Slope Seepage	1.00 1.00 0.53
391: Runlett-----	50	Very limited Restricted permeability Depth to bedrock Slope	1.00 1.00 1.00	Very limited Depth to hard bedrock Slope Seepage	1.00 1.00 0.53
Sessions-----	30	Very limited Restricted permeability Slope	1.00 1.00	Very limited Slope	1.00

Table 17.--Sanitary facilities--Continued

Map symbol and soil name	Pct. of map unit	Septic tank absorption fields		Sewage lagoons	
		Rating class and limiting features	Value	Rating class and limiting features	Value
392: Runlett-----	30	Very limited Restricted permeability Depth to bedrock Slope	1.00 1.00 1.00	Very limited Depth to hard bedrock Slope Seepage	1.00 1.00 0.53
Needleton-----	30	Very limited Filtering capacity Slope Restricted permeability Content of large stones	1.00 1.00 1.00 0.58	Very limited Slope Seepage	1.00 0.53
Sessions-----	20	Very limited Restricted permeability Slope	1.00 1.00	Very limited Slope	1.00
393: Heisspitz-----	50	Very limited Depth to bedrock Slope	1.00 0.16	Very limited Depth to hard bedrock Slope Seepage	1.00 1.00 0.53
Sessions-----	25	Very limited Restricted permeability Slope	1.00 0.16	Very limited Slope	1.00
Rock outcrop-----	20	Not rated		Not rated	
394: Clayburn-----	55	Very limited Slope Restricted permeability	1.00 1.00	Very limited Slope Seepage	1.00 0.53
Heisspitz-----	30	Very limited Depth to bedrock Slope	1.00 1.00	Very limited Depth to hard bedrock Slope Seepage	1.00 1.00 0.53
395: Scout-----	85	Very limited Filtering capacity Seepage Slope Content of large stones	1.00 1.00 1.00 1.00	Very limited Slope Seepage Content of large stones	1.00 1.00 1.00

Table 17.--Sanitary facilities--Continued

Map symbol and soil name	Pct. of map unit	Septic tank absorption fields		Sewage lagoons	
		Rating class and limiting features	Value	Rating class and limiting features	Value
396: Scout-----	85	Very limited Filtering capacity Slope Seepage Content of large stones	1.00 1.00 1.00 1.00	Very limited Slope Seepage Content of large stones	1.00 1.00 1.00
399: Kite-----	40	Very limited Depth to bedrock Slope Seepage	1.00 1.00 1.00	Very limited Depth to hard bedrock Slope Seepage	1.00 1.00 1.00
Rock outcrop-----	35	Not rated		Not rated	
450: Lostlake-----	45	Very limited Depth to bedrock Filtering capacity Slope	1.00 1.00 1.00	Very limited Depth to hard bedrock Slope Seepage	1.00 1.00 0.53
Rock outcrop-----	35	Not rated		Not rated	
452: Dystrocryepts-----	55	Very limited Depth to bedrock Slope	1.00 1.00	Very limited Depth to hard bedrock Slope Seepage	1.00 1.00 0.53
Rock outcrop-----	35	Not rated		Not rated	
453: Sig-----	40	Very limited Depth to bedrock Filtering capacity Slope	1.00 1.00 1.00	Very limited Depth to hard bedrock Slope Seepage	1.00 1.00 0.53
Rock outcrop-----	30	Not rated		Not rated	
Snowdon-----	20	Very limited Depth to bedrock Filtering capacity Slope Content of large stones	1.00 1.00 1.00 1.00	Very limited Depth to hard bedrock Slope Seepage Content of large stones	1.00 1.00 1.00 1.00

Table 17.--Sanitary facilities--Continued

Map symbol and soil name	Pct. of map unit	Septic tank absorption fields		Sewage lagoons	
		Rating class and limiting features	Value	Rating class and limiting features	Value
454: Snowdon-----	35	Very limited Depth to bedrock Filtering capacity Slope Content of large stones	1.00 1.00 1.00 1.00	Very limited Depth to hard bedrock Slope Seepage Content of large stones	1.00 1.00 1.00 1.00
Sig-----	30	Very limited Depth to bedrock Filtering capacity Slope	1.00 1.00 1.00	Very limited Depth to hard bedrock Slope Seepage	1.00 1.00 0.53
Rock outcrop-----	25	Not rated		Not rated	
493: Badland-----	90	Not rated		Not rated	
494: Pits, gravel-----	100	Not rated		Not rated	
495: Riverwash-----	85	Not rated		Very limited Flooding Seepage Depth to saturated zone	1.00 1.00 1.00
496: Rock outcrop-----	70	Not rated		Not rated	
497: Rubble land-----	80	Not rated		Very limited Slope Content of large stones	1.00 1.00
498: Slickens-----	80	Not rated		Very limited Slope	1.00
499: Water-----	100	Not rated		Not rated	
500: Dolores-----	50	Very limited Restricted permeability Filtering capacity Content of large stones	1.00 1.00 1.00	Very limited Slope Content of large stones	1.00 1.00

Table 17.--Sanitary facilities--Continued

Map symbol and soil name	Pct. of map unit	Septic tank absorption fields		Sewage lagoons	
		Rating class and limiting features	Value	Rating class and limiting features	Value
500: Fivepine-----	35	Very limited Depth to bedrock Content of large stones	1.00 0.32	Very limited Depth to hard bedrock Slope Content of large stones	1.00 1.00 0.53
501: Fivepine-----	60	Very limited Depth to bedrock Content of large stones	1.00 0.32	Very limited Depth to hard bedrock Slope Content of large stones	1.00 1.00 0.39
Nortez-----	25	Very limited Restricted permeability Depth to bedrock	1.00 1.00	Very limited Depth to hard bedrock Slope	1.00 1.00
503: Ormiston-----	50	Very limited Restricted permeability Content of large stones Depth to bedrock	1.00 1.00 0.96	Very limited Content of large stones Slope Depth to hard bedrock	1.00 1.00 0.88
Fivepine-----	35	Very limited Depth to bedrock Content of large stones	1.00 0.32	Very limited Depth to hard bedrock Slope Content of large stones	1.00 1.00 0.39
504: Jemco-----	40	Very limited Depth to bedrock Restricted permeability	1.00 1.00	Very limited Depth to hard bedrock Slope Seepage	1.00 1.00 0.53
Detra-----	30	Very limited Restricted permeability Depth to bedrock	1.00 0.41	Very limited Slope Seepage Depth to hard bedrock	1.00 0.53 0.02
Beje-----	20	Very limited Depth to bedrock	1.00	Very limited Depth to hard bedrock Slope Seepage	1.00 1.00 0.28

Table 17.--Sanitary facilities--Continued

Map symbol and soil name	Pct. of map unit	Septic tank absorption fields		Sewage lagoons	
		Rating class and limiting features	Value	Rating class and limiting features	Value
505: Moento-----	80	Very limited Depth to bedrock Restricted permeability Seepage	1.00 1.00 1.00	Very limited Depth to hard bedrock Slope Seepage	1.00 1.00 1.00
506: Moento-----	35	Very limited Depth to bedrock Restricted permeability Seepage	1.00 1.00 1.00	Very limited Depth to hard bedrock Slope Seepage	1.00 1.00 1.00
Detra-----	30	Very limited Restricted permeability Depth to bedrock Slope	1.00 0.41 0.04	Very limited Slope Seepage Depth to hard bedrock	1.00 0.53 0.02
Jemco-----	20	Very limited Depth to bedrock Restricted permeability	1.00 1.00	Very limited Depth to hard bedrock Slope Seepage	1.00 1.00 0.53
508: Herm-----	50	Very limited Restricted permeability	1.00	Very limited Slope	1.00
Pagoda-----	35	Very limited Restricted permeability Filtering capacity	1.00 1.00	Very limited Slope	1.00
509: Burnson, dry-----	80	Very limited Restricted permeability Filtering capacity Depth to bedrock	1.00 1.00 0.96	Very limited Slope Depth to hard bedrock	1.00 0.88
510: Jemco-----	60	Very limited Depth to bedrock Restricted permeability	1.00 1.00	Very limited Depth to hard bedrock Slope Seepage	1.00 1.00 0.53
Moento-----	25	Very limited Depth to bedrock Restricted permeability Seepage	1.00 1.00 1.00	Very limited Depth to hard bedrock Slope Seepage	1.00 1.00 1.00

Table 17.--Sanitary facilities--Continued

Map symbol and soil name	Pct. of map unit	Septic tank absorption fields		Sewage lagoons	
		Rating class and limiting features	Value	Rating class and limiting features	Value
511: Granath-----	50	Very limited Restricted permeability	1.00	Very limited Slope Seepage	1.00 0.28
Fughes-----	35	Very limited Restricted permeability Filtering capacity	1.00 1.00	Very limited Slope	1.00
512: Wetherill-----	85	Very limited Restricted permeability	1.00	Somewhat limited Seepage Slope	0.53 0.32
513: Maudrey-----	50	Very limited Restricted permeability	1.00	Very limited Slope Seepage	1.00 0.53
Tombac-----	35	Very limited Restricted permeability Filtering capacity	1.00 1.00	Very limited Slope Seepage	1.00 0.53
525: Arabrab-----	85	Very limited Depth to bedrock	1.00	Very limited Depth to hard bedrock Slope Seepage	1.00 1.00 0.53
526: Lonecone-----	80	Very limited Depth to bedrock Restricted permeability	1.00 0.46	Very limited Depth to soft bedrock Seepage	1.00 0.53
527: Ormiston-----	50	Very limited Restricted permeability Content of large stones Slope Depth to bedrock	1.00 1.00 1.00 0.96	Very limited Slope Content of large stones Depth to hard bedrock	1.00 1.00 0.88
Beje-----	35	Very limited Depth to bedrock Slope	1.00 1.00	Very limited Depth to hard bedrock Slope Seepage	1.00 1.00 0.28

Table 17.--Sanitary facilities--Continued

Map symbol and soil name	Pct. of map unit	Septic tank absorption fields		Sewage lagoons	
		Rating class and limiting features	Value	Rating class and limiting features	Value
552: Burnson-----	80	Very limited Restricted permeability Filtering capacity Depth to bedrock	1.00 1.00 0.96	Very limited Slope Depth to hard bedrock	1.00 0.88
553: Burnson-----	50	Very limited Restricted permeability Filtering capacity Slope Depth to bedrock	1.00 1.00 1.00 0.96	Very limited Slope Depth to hard bedrock	1.00 0.88
Herm-----	30	Very limited Restricted permeability Slope	1.00 1.00	Very limited Slope	1.00
571: Mancos-----	40	Very limited Depth to bedrock Restricted permeability	1.00 1.00	Very limited Depth to hard bedrock Slope Seepage	1.00 1.00 0.53
Skisams-----	35	Very limited Depth to bedrock	1.00	Very limited Depth to hard bedrock Slope	1.00 1.00
Skutum-----	20	Very limited Restricted permeability Filtering capacity Depth to bedrock	1.00 1.00 0.63	Very limited Slope Seepage Depth to soft bedrock	1.00 0.28 0.18
572: Sudduth-----	85	Very limited Restricted permeability Depth to saturated zone	1.00 0.84	Very limited Slope Depth to saturated zone	1.00 0.17
600: Valto-----	50	Very limited Depth to bedrock Filtering capacity Seepage Slope Content of large stones	1.00 1.00 1.00 1.00 1.00	Very limited Depth to hard bedrock Slope Seepage Content of large stones	1.00 1.00 1.00 1.00
Rock outcrop-----	35	Not rated		Not rated	

Table 17.--Sanitary facilities--Continued

Map symbol and soil name	Pct. of map unit	Septic tank absorption fields		Sewage lagoons	
		Rating class and limiting features	Value	Rating class and limiting features	Value
601: Weminuche-----	85	Very limited Filtering capacity Slope Restricted permeability	1.00 1.00 1.00	Very limited Slope Seepage	1.00 1.00
602: Weminuche-----	85	Very limited Filtering capacity Restricted permeability Slope	1.00 1.00 1.00	Very limited Slope Seepage	1.00 1.00
603: Weminuche-----	55	Very limited Filtering capacity Slope Restricted permeability	1.00 1.00 1.00	Very limited Slope Seepage	1.00 1.00
Anvik-----	25	Very limited Filtering capacity Slope Restricted permeability	1.00 1.00 0.46	Very limited Slope Seepage	1.00 1.00
605: Nordicol-----	80	Very limited Filtering capacity Seepage Content of large stones Slope Restricted permeability	1.00 1.00 1.00 1.00 0.46	Very limited Content of large stones Seepage Slope	1.00 1.00 1.00
606: Snowdon-----	50	Very limited Depth to bedrock Filtering capacity Slope Content of large stones	1.00 1.00 1.00 1.00	Very limited Depth to hard bedrock Slope Content of large stones Seepage	1.00 1.00 1.00 1.00
Needleton-----	35	Very limited Filtering capacity Slope Restricted permeability Content of large stones	1.00 1.00 1.00 1.00	Very limited Slope Content of large stones Seepage	1.00 1.00 0.53

Table 17.--Sanitary facilities--Continued

Map symbol and soil name	Pct. of map unit	Septic tank absorption fields		Sewage lagoons	
		Rating class and limiting features	Value	Rating class and limiting features	Value
607: Graysill-----	45	Very limited Depth to bedrock Filtering capacity Slope Restricted permeability	1.00 1.00 1.00 1.00	Very limited Depth to hard bedrock Slope Seepage	1.00 1.00 0.53
Scotch-----	35	Very limited Depth to bedrock Filtering capacity Slope	1.00 1.00 1.00	Very limited Depth to hard bedrock Slope	1.00 1.00
608: Scotch-----	45	Very limited Depth to bedrock Filtering capacity Slope	1.00 1.00 1.00	Very limited Depth to hard bedrock Slope	1.00 1.00
Graysill-----	35	Very limited Depth to bedrock Filtering capacity Slope Restricted permeability	1.00 1.00 1.00 1.00	Very limited Depth to hard bedrock Slope Seepage	1.00 1.00 0.53
609: Hourglass-----	50	Very limited Restricted permeability Slope	1.00 1.00	Very limited Slope	1.00
Wander-----	35	Very limited Restricted permeability Slope Content of large stones	1.00 1.00 1.00	Very limited Slope Content of large stones	1.00 1.00
610: Wander-----	45	Very limited Slope Restricted permeability Content of large stones	1.00 1.00 1.00	Very limited Slope Content of large stones	1.00 1.00
Hotter-----	30	Very limited Depth to bedrock Slope Seepage Content of large stones	1.00 1.00 1.00 1.00	Very limited Depth to hard bedrock Slope Seepage Content of large stones	1.00 1.00 1.00 1.00

Table 17.--Sanitary facilities--Continued

Map symbol and soil name	Pct. of map unit	Septic tank absorption fields		Sewage lagoons	
		Rating class and limiting features	Value	Rating class and limiting features	Value
610: Hourglass-----	15	Very limited Slope Restricted permeability	1.00 1.00	Very limited Slope Seepage	1.00 0.53
611: Goldbug-----	85	Very limited Restricted permeability Filtering capacity Content of large stones Slope	1.00 1.00 1.00 1.00	Very limited Content of large stones Seepage Slope	1.00 1.00 1.00
612: Haviland-----	50	Very limited Filtering capacity Restricted permeability Slope	1.00 1.00 1.00	Very limited Slope Seepage	1.00 0.53
Graysill-----	35	Very limited Depth to bedrock Filtering capacity Restricted permeability Slope	1.00 1.00 1.00 1.00	Very limited Depth to hard bedrock Slope Seepage	1.00 1.00 0.53
615: Haviland-----	75	Very limited Filtering capacity Slope Restricted permeability	1.00 1.00 1.00	Very limited Slope Seepage	1.00 0.53
616: Forthlewis-----	85	Very limited Restricted permeability Depth to bedrock Filtering capacity	1.00 1.00 1.00	Very limited Depth to hard bedrock Slope Content of large stones	1.00 1.00 0.28
617: Shawa-----	85	Very limited Restricted permeability Slope	1.00 0.74	Very limited Slope Seepage	1.00 0.53

Table 17.--Sanitary facilities--Continued

Map symbol and soil name	Pct. of map unit	Septic tank absorption fields		Sewage lagoons	
		Rating class and limiting features	Value	Rating class and limiting features	Value
618: Nordicol-----	50	Very limited Filtering capacity Slope Seepage Content of large stones Restricted permeability	1.00 1.00 1.00 1.00 0.46	Very limited Slope Content of large stones Seepage	1.00 1.00 1.00
Valto-----	35	Very limited Depth to bedrock Filtering capacity Slope Seepage Content of large stones	1.00 1.00 1.00 1.00 1.00	Very limited Depth to hard bedrock Slope Seepage Content of large stones	1.00 1.00 1.00 1.00
619: Nordicol-----	80	Very limited Filtering capacity Slope Content of large stones Restricted permeability	1.00 1.00 1.00 0.46	Very limited Slope Content of large stones Seepage	1.00 1.00 1.00
620: Caviness-----	90	Very limited Restricted permeability Filtering capacity Slope Depth to bedrock Content of large stones	1.00 1.00 1.00 0.36 0.04	Very limited Slope Seepage Content of large stones Depth to hard bedrock	1.00 0.53 0.06 0.01
621: Granturk-----	85	Very limited Depth to bedrock Filtering capacity Seepage Slope	1.00 1.00 1.00 1.00	Very limited Depth to hard bedrock Seepage Slope	1.00 1.00 1.00
622: Granturk-----	60	Very limited Depth to bedrock Filtering capacity Slope Seepage	1.00 1.00 1.00 1.00	Very limited Depth to hard bedrock Slope Seepage	1.00 1.00 1.00
Rock outcrop-----	30	Not rated		Not rated	

Table 17.--Sanitary facilities--Continued

Map symbol and soil name	Pct. of map unit	Septic tank absorption fields		Sewage lagoons	
		Rating class and limiting features	Value	Rating class and limiting features	Value
623: Chris-----	50	Very limited Restricted permeability Filtering capacity Slope	1.00 1.00 1.00	Very limited Slope Seepage	1.00 0.53
Nordicol-----	40	Very limited Filtering capacity Slope Seepage Content of large stones Restricted permeability	1.00 1.00 1.00 1.00 0.46	Very limited Slope Content of large stones Seepage	1.00 1.00 1.00
699: Haplocryolls-----	40	Very limited Filtering capacity Slope Content of large stones Restricted permeability Depth to bedrock	1.00 1.00 1.00 0.72 0.01	Very limited Slope Content of large stones Seepage	1.00 1.00 0.53
Rubble land-----	40	Not rated		Very limited Slope Content of large stones	1.00 1.00
700: Bradfield-----	90	Very limited Restricted permeability	1.00	Somewhat limited Slope	0.08
703: Narraguinnep-----	80	Very limited Restricted permeability Slope	1.00 1.00	Very limited Slope	1.00
704: Gladlow-----	30	Very limited Restricted permeability Slope	1.00 0.04	Very limited Slope	1.00
Rock outcrop-----	30	Not rated		Not rated	
Ruko-----	20	Very limited Depth to bedrock Slope	1.00 0.04	Very limited Depth to soft bedrock Slope	1.00 1.00

Table 17.--Sanitary facilities--Continued

Map symbol and soil name	Pct. of map unit	Septic tank absorption fields		Sewage lagoons	
		Rating class and limiting features	Value	Rating class and limiting features	Value
705: Helmet-----	80	Very limited Restricted permeability Filtering capacity	1.00 1.00	Very limited Slope	1.00
706: Narraguinnep-----	85	Very limited Restricted permeability Slope	1.00 0.16	Very limited Slope	1.00
707: Teedown-----	50	Very limited Restricted permeability Slope	1.00 0.16	Very limited Slope Seepage	1.00 0.53
Nordicol-----	35	Very limited Filtering capacity Content of large stones Restricted permeability Slope	1.00 1.00 0.46 0.16	Very limited Slope Content of large stones Seepage	1.00 1.00 1.00
708: Helmet-----	80	Very limited Restricted permeability Filtering capacity Slope	1.00 1.00 1.00	Very limited Slope	1.00
709: Teedown-----	85	Very limited Restricted permeability	1.00	Very limited Slope Seepage	1.00 0.53
710: Sili-----	50	Very limited Restricted permeability Slope	1.00 0.16	Very limited Slope	1.00
Zigzag-----	30	Very limited Depth to bedrock Slope	1.00 0.16	Very limited Depth to soft bedrock Slope	1.00 1.00
711: Sili-----	85	Very limited Restricted permeability Slope	1.00 0.16	Very limited Slope	1.00

Table 17.--Sanitary facilities--Continued

Map symbol and soil name	Pct. of map unit	Septic tank absorption fields		Sewage lagoons	
		Rating class and limiting features	Value	Rating class and limiting features	Value
714: Helmet-----	80	Very limited Restricted permeability Filtering capacity Slope	1.00 1.00 1.00	Very limited Slope	1.00
718: Narraguinnep-----	50	Very limited Restricted permeability Slope	1.00 1.00	Very limited Slope	1.00
Gladlow-----	40	Very limited Restricted permeability Slope	1.00 1.00	Very limited Slope	1.00
720: Zigzag-----	45	Very limited Depth to bedrock Slope	1.00 1.00	Very limited Depth to soft bedrock Slope	1.00 1.00
Rock outcrop-----	35	Not rated		Not rated	
723: Zigzag-----	50	Very limited Depth to bedrock Slope	1.00 1.00	Very limited Depth to soft bedrock Slope	1.00 1.00
Rock outcrop-----	40	Not rated		Not rated	
725: Shawa-----	85	Very limited Slope Restricted permeability	1.00 1.00	Very limited Slope Seepage	1.00 0.53
727: Teedown-----	50	Very limited Restricted permeability Slope	1.00 1.00	Very limited Slope Seepage	1.00 0.53
Nordicol-----	35	Very limited Filtering capacity Slope Content of large stones Restricted permeability	1.00 1.00 1.00 0.46	Very limited Slope Content of large stones Seepage	1.00 1.00 1.00

Table 17.--Sanitary facilities--Continued

Map symbol and soil name	Pct. of map unit	Septic tank absorption fields		Sewage lagoons	
		Rating class and limiting features	Value	Rating class and limiting features	Value
730: Baird Hollow-----	35	Very limited Restricted permeability Filtering capacity Slope Content of large stones	1.00 1.00 1.00 0.01	Very limited Slope Seepage	1.00 0.53
Nordicol-----	30	Very limited Filtering capacity Slope Seepage Content of large stones Restricted permeability	1.00 1.00 1.00 1.00 1.00 0.46	Very limited Slope Seepage Content of large stones	1.00 1.00 1.00
Ryman-----	25	Very limited Restricted permeability Slope	1.00 1.00	Very limited Slope	1.00
731: Ryman-----	60	Very limited Restricted permeability	1.00	Somewhat limited Slope	0.32
Adel-----	30	Somewhat limited Restricted permeability	0.72	Very limited Slope Seepage	1.00 0.53
732: Adel-----	50	Very limited Slope Restricted permeability	1.00 0.72	Very limited Slope Seepage	1.00 0.53
Quazar-----	40	Very limited Slope Content of large stones Restricted permeability	1.00 0.97 0.46	Very limited Slope Content of large stones Seepage	1.00 1.00 0.53
733: Adel-----	70	Very limited Slope Restricted permeability	1.00 0.72	Very limited Slope Seepage	1.00 0.53
Bucklon-----	20	Very limited Depth to bedrock Slope	1.00 1.00	Very limited Depth to soft bedrock Slope	1.00 1.00

Table 17.--Sanitary facilities--Continued

Map symbol and soil name	Pct. of map unit	Septic tank absorption fields		Sewage lagoons	
		Rating class and limiting features	Value	Rating class and limiting features	Value
734: Ryman-----	60	Very limited Restricted permeability	1.00	Very limited Slope	1.00
Clayburn-----	30	Very limited Restricted permeability	1.00	Very limited Slope Seepage	1.00 0.53
740: Cowntown-----	50	Very limited Restricted permeability Slope	1.00 1.00	Very limited Slope Seepage	1.00 0.53
Scout-----	30	Very limited Filtering capacity Seepage Slope Content of large stones	1.00 1.00 1.00 1.00 1.00	Very limited Seepage Slope Content of large stones	1.00 1.00 1.00
741: Cowntown-----	45	Very limited Restricted permeability Slope	1.00 1.00	Very limited Slope Seepage	1.00 0.53
Scout-----	35	Very limited Filtering capacity Slope Seepage Content of large stones	1.00 1.00 1.00 1.00 1.00	Very limited Slope Seepage Content of large stones	1.00 1.00 1.00
750: Archuleta-----	50	Very limited Depth to bedrock Slope	1.00 1.00	Very limited Depth to soft bedrock Slope	1.00 1.00
Sheek-----	35	Very limited Filtering capacity Restricted permeability Slope Content of large stones	1.00 1.00 1.00 1.00 1.00	Very limited Slope Content of large stones	1.00 1.00
801: Fughes-----	50	Very limited Restricted permeability Slope	1.00 1.00	Very limited Slope	1.00

Table 17.--Sanitary facilities--Continued

Map symbol and soil name	Pct. of map unit	Septic tank absorption fields		Sewage lagoons	
		Rating class and limiting features	Value	Rating class and limiting features	Value
801: Sheek-----	35	Very limited Slope Restricted permeability Content of large stones	1.00 1.00 0.47	Very limited Slope Content of large stones Seepage	1.00 1.00 0.53
802: Argiustolls-----	30	Very limited Restricted permeability Filtering capacity Slope Content of large stones Depth to bedrock	1.00 1.00 1.00 1.00 0.01	Very limited Slope Content of large stones	1.00 1.00
Haplustalfs-----	30	Very limited Restricted permeability Slope Content of large stones Depth to bedrock	1.00 1.00 1.00 0.01	Very limited Slope Content of large stones	1.00 1.00
Rock outcrop-----	25	Not rated		Not rated	
804: Wauquie-----	40	Very limited Slope Content of large stones Restricted permeability	1.00 0.95 0.46	Very limited Slope Content of large stones Seepage	1.00 1.00 0.53
Dolcan-----	25	Very limited Depth to bedrock Slope Content of large stones	1.00 1.00 0.01	Very limited Depth to soft bedrock Slope Content of large stones	1.00 1.00 0.01
Rock outcrop-----	20	Not rated		Not rated	
805: Shawa-----	50	Very limited Slope Restricted permeability	1.00 1.00	Very limited Slope Seepage	1.00 0.53
Fughes-----	40	Very limited Restricted permeability Filtering capacity Slope	1.00 1.00 1.00	Very limited Slope	1.00

Table 17.--Sanitary facilities--Continued

Map symbol and soil name	Pct. of map unit	Septic tank absorption fields		Sewage lagoons	
		Rating class and limiting features	Value	Rating class and limiting features	Value
806: Shawa-----	45	Very limited Slope Restricted permeability	1.00 1.00	Very limited Slope Seepage	1.00 0.53
Fughes-----	35	Very limited Restricted permeability Filtering capacity Slope	1.00 1.00 1.00	Very limited Slope	1.00
809: Argiustolls-----	45	Very limited Restricted permeability Filtering capacity Slope Content of large stones Depth to bedrock	1.00 1.00 1.00 1.00 0.01	Very limited Slope Content of large stones	1.00 1.00
Haplustalfs-----	40	Very limited Restricted permeability Slope Content of large stones Depth to bedrock	1.00 1.00 1.00 0.01	Very limited Slope Content of large stones	1.00 1.00
813: Fughes-----	80	Very limited Restricted permeability Slope	1.00 1.00	Very limited Slope	1.00
814: Leaps-----	50	Very limited Restricted permeability Slope	1.00 1.00	Very limited Slope	1.00
Hofly-----	35	Very limited Restricted permeability Slope	1.00 1.00	Very limited Slope	1.00
815: Behanco-----	45	Very limited Restricted permeability Filtering capacity Depth to bedrock	1.00 1.00 0.89	Very limited Seepage Slope Slope Content of large stones Depth to soft bedrock	1.00 1.00 1.00 0.75 0.71

Table 17.--Sanitary facilities--Continued

Map symbol and soil name	Pct. of map unit	Septic tank absorption fields		Sewage lagoons	
		Rating class and limiting features	Value	Rating class and limiting features	Value
815: Powderhorn family---	40	Very limited Restricted permeability Filtering capacity Depth to bedrock	1.00 1.00 0.27	Very limited Slope Seepage	1.00 0.53
816: Storm-----	85	Very limited Filtering capacity Slope Restricted permeability Content of large stones	1.00 1.00 1.00 1.00	Very limited Slope Content of large stones Seepage	1.00 1.00 0.53
826: Ute-----	50	Very limited Restricted permeability Depth to saturated zone Filtering capacity	1.00 1.00 1.00	Very limited Depth to saturated zone Seepage	1.00 0.28
Frisco-----	40	Very limited Filtering capacity Content of large stones Slope Restricted permeability	1.00 0.99 0.84 0.46	Very limited Slope Seepage	1.00 0.53
830: Dressel-----	55	Very limited Filtering capacity Slope Content of large stones Restricted permeability	1.00 1.00 0.90 0.46	Very limited Slope Content of large stones Seepage	1.00 1.00 0.53
Jersey-----	30	Very limited Restricted permeability Filtering capacity Slope Content of large stones	1.00 1.00 1.00 1.00	Very limited Slope Content of large stones	1.00 1.00

Table 17.--Sanitary facilities--Continued

Map symbol and soil name	Pct. of map unit	Septic tank absorption fields		Sewage lagoons	
		Rating class and limiting features	Value	Rating class and limiting features	Value
832: Storm-----	85	Very limited Filtering capacity Restricted permeability Content of large stones	1.00 1.00 1.00	Very limited Content of large stones Slope Seepage	1.00 1.00 0.53
834: Haycamp-----	60	Very limited Restricted permeability Filtering capacity Slope	1.00 1.00 1.00	Very limited Slope Content of large stones	1.00 0.96
Jersey-----	25	Very limited Restricted permeability Filtering capacity Slope Content of large stones	1.00 1.00 1.00 1.00	Very limited Slope Content of large stones	1.00 1.00
835: Brumley-----	85	Very limited Restricted permeability	1.00	Somewhat limited Seepage Slope	0.53 0.32
860: Granath-----	55	Very limited Restricted permeability	1.00	Very limited Slope Seepage	1.00 0.28
Nortez-----	30	Very limited Restricted permeability Depth to bedrock	1.00 1.00	Very limited Depth to hard bedrock Slope	1.00 1.00
861: Morapos-----	80	Very limited Restricted permeability	1.00	Very limited Slope	1.00
862: Granath-----	40	Very limited Restricted permeability	1.00	Very limited Slope Seepage	1.00 0.28
Dolores-----	25	Very limited Restricted permeability Filtering capacity Content of large stones	1.00 1.00 1.00	Very limited Slope Content of large stones	1.00 1.00

Table 17.--Sanitary facilities--Continued

Map symbol and soil name	Pct. of map unit	Septic tank absorption fields		Sewage lagoons	
		Rating class and limiting features	Value	Rating class and limiting features	Value
862: Fivepine-----	20	Very limited Depth to bedrock Content of large stones	1.00 0.32	Very limited Depth to hard bedrock Slope Content of large stones	1.00 1.00 0.53
863: Granath-----	40	Very limited Restricted permeability	1.00	Very limited Slope Seepage	1.00 0.28
Ormiston-----	25	Very limited Restricted permeability Content of large stones Depth to bedrock	1.00 1.00 0.96	Very limited Content of large stones Slope Depth to hard bedrock	1.00 1.00 0.88
Fivepine-----	20	Very limited Depth to bedrock Content of large stones	1.00 0.32	Very limited Depth to hard bedrock Slope Content of large stones	1.00 1.00 0.39
890: Tamarron-----	45	Very limited Depth to bedrock Filtering capacity Slope Restricted permeability Content of large stones	1.00 1.00 1.00 1.00 0.93	Very limited Depth to soft bedrock Slope Seepage Content of large stones	1.00 1.00 0.53 0.44
Frisco-----	35	Very limited Filtering capacity Slope Content of large stones Restricted permeability	1.00 1.00 0.99 0.46	Very limited Slope Seepage	1.00 0.53
891: Tamarron-----	45	Very limited Depth to bedrock Filtering capacity Slope Restricted permeability Content of large stones	1.00 1.00 1.00 1.00 0.93	Very limited Depth to soft bedrock Slope Seepage Content of large stones	1.00 1.00 0.53 0.44

Table 17.--Sanitary facilities--Continued

Map symbol and soil name	Pct. of map unit	Septic tank absorption fields		Sewage lagoons	
		Rating class and limiting features	Value	Rating class and limiting features	Value
891: Frisco-----	40	Very limited Filtering capacity Slope Content of large stones Restricted permeability	1.00 1.00 0.99 0.46	Very limited Slope Seepage	1.00 0.53
901: Granath-----	45	Very limited Restricted permeability	1.00	Very limited Slope Seepage	1.00 0.28
Zoltay-----	25	Very limited Restricted permeability	1.00	Very limited Slope	1.00
Nortez-----	20	Very limited Restricted permeability Depth to bedrock	1.00 1.00	Very limited Depth to hard bedrock Slope	1.00 1.00
903: Anvik-----	85	Very limited Filtering capacity Slope Restricted permeability	1.00 1.00 0.46	Very limited Slope Seepage	1.00 1.00
904: Beje-----	85	Very limited Depth to bedrock Slope	1.00 0.96	Very limited Depth to hard bedrock Slope Seepage	1.00 1.00 0.53
905: Cryaquolls-----	95	Very limited Flooding Depth to saturated zone Seepage	1.00 1.00 1.00	Very limited Flooding Depth to saturated zone Seepage	1.00 1.00 1.00
906: Archuleta-----	80	Very limited Depth to bedrock Slope	1.00 1.00	Very limited Depth to soft bedrock Slope Seepage	1.00 1.00 0.53
907: Archuleta-----	45	Very limited Depth to bedrock Slope	1.00 1.00	Very limited Depth to soft bedrock Slope Seepage	1.00 1.00 0.53

Table 17.--Sanitary facilities--Continued

Map symbol and soil name	Pct. of map unit	Septic tank absorption fields		Sewage lagoons	
		Rating class and limiting features	Value	Rating class and limiting features	Value
907: Sanchez-----	30	Very limited Depth to bedrock Slope Content of large stones	1.00 1.00 1.00	Very limited Depth to hard bedrock Slope Content of large stones	1.00 1.00 1.00
908: Adel-----	85	Very limited Slope Restricted permeability	1.00 0.72	Very limited Slope Seepage	1.00 0.53
909: Adel-----	90	Very limited Slope Restricted permeability	1.00 0.72	Very limited Slope Seepage	1.00 0.53
917: Chris-----	85	Very limited Restricted permeability Filtering capacity Slope Content of large stones	1.00 1.00 1.00 0.73	Very limited Slope Content of large stones Seepage	1.00 1.00 0.53
919: Clayburn-----	90	Very limited Restricted permeability	1.00	Very limited Slope Seepage	1.00 0.53
920: Clayburn-----	85	Very limited Restricted permeability Slope	1.00 1.00	Very limited Slope Content of large stones Seepage	1.00 0.96 0.53
926: Ustolls-----	45	Very limited Restricted permeability Slope Content of large stones Depth to bedrock	1.00 1.00 1.00 0.01	Very limited Slope Content of large stones Seepage	1.00 1.00 0.53
Rock outcrop-----	40	Not rated		Not rated	

Table 17.--Sanitary facilities--Continued

Map symbol and soil name	Pct. of map unit	Septic tank absorption fields		Sewage lagoons	
		Rating class and limiting features	Value	Rating class and limiting features	Value
930: Furtlewis-----	45	Very limited Restricted permeability Depth to bedrock Filtering capacity Slope	1.00 1.00 1.00 1.00	Very limited Depth to hard bedrock Slope Content of large stones	1.00 1.00 0.28
Rock outcrop-----	35	Not rated		Not rated	
934: Ceek-----	85	Very limited Restricted permeability Filtering capacity Slope Content of large stones	1.00 1.00 1.00 0.16	Very limited Slope Content of large stones	1.00 1.00
937: Herm-----	85	Very limited Restricted permeability Slope	1.00 1.00	Very limited Slope	1.00
939: Ohwiler-----	90	Somewhat limited Restricted permeability	0.99	Very limited Slope Seepage	1.00 0.53
940: Horsethief-----	85	Very limited Filtering capacity Slope Restricted permeability Content of large stones	1.00 1.00 1.00 1.00	Very limited Slope Seepage Content of large stones	1.00 1.00 1.00
942: Fivepine-----	50	Very limited Depth to bedrock Content of large stones	1.00 0.06	Very limited Depth to hard bedrock Slope Content of large stones	1.00 1.00 0.09
Pino-----	35	Very limited Restricted permeability Depth to bedrock Filtering capacity	1.00 1.00 1.00	Very limited Depth to hard bedrock Slope	1.00 1.00

Table 17.--Sanitary facilities--Continued

Map symbol and soil name	Pct. of map unit	Septic tank absorption fields		Sewage lagoons	
		Rating class and limiting features	Value	Rating class and limiting features	Value
945: Nizhoni-----	35	Very limited Depth to bedrock Seepage Slope	1.00 1.00 1.00	Very limited Depth to hard bedrock Slope	1.00 1.00
Arabrab-----	30	Very limited Depth to bedrock	1.00	Very limited Depth to hard bedrock Slope Seepage	1.00 1.00 0.54
Rock outcrop-----	30	Not rated		Not rated	
950: Pescar-----	80	Very limited Flooding Depth to saturated zone Filtering capacity Seepage	1.00 1.00 1.00 1.00	Very limited Flooding Seepage Depth to saturated zone	1.00 1.00 1.00
951: Endoaquolls-----	90	Very limited Flooding Depth to saturated zone Filtering capacity Seepage	1.00 1.00 1.00 1.00	Very limited Flooding Seepage Depth to saturated zone	1.00 1.00 1.00
955: Umbarg-----	35	Very limited Depth to saturated zone Restricted permeability Flooding	0.99 0.46 0.40	Somewhat limited Depth to saturated zone Seepage Flooding	0.75 0.53 0.40
Winner-----	30	Very limited Depth to saturated zone Restricted permeability Flooding	1.00 1.00 0.40	Very limited Depth to saturated zone Seepage Flooding	1.00 0.53 0.40
Tesajo-----	20	Very limited Filtering capacity Seepage Content of large stones Depth to saturated zone Flooding	1.00 1.00 1.00 0.43 0.40	Very limited Seepage Content of large stones Flooding	1.00 1.00 0.40

Table 17.--Sanitary facilities--Continued

Map symbol and soil name	Pct. of map unit	Septic tank absorption fields		Sewage lagoons	
		Rating class and limiting features	Value	Rating class and limiting features	Value
956: Ormiston-----	50	Very limited Restricted permeability Content of large stones Depth to bedrock	1.00 1.00 0.96	Very limited Content of large stones Slope Depth to hard bedrock	1.00 1.00 0.88
Granath-----	35	Very limited Restricted permeability	1.00	Very limited Slope Seepage	1.00 0.28
958: Sheek-----	35	Very limited Filtering capacity Slope Restricted permeability Content of large stones	1.00 1.00 1.00 1.00	Very limited Slope Content of large stones	1.00 1.00
Archuleta-----	30	Very limited Depth to bedrock Filtering capacity Slope Content of large stones	1.00 1.00 1.00 0.93	Very limited Depth to soft bedrock Slope Content of large stones	1.00 1.00 1.00
Rock outcrop-----	20	Not rated		Not rated	
959: Granath-----	90	Very limited Restricted permeability	1.00	Somewhat limited Slope Seepage	0.32 0.28
965: Narraguinnep-----	55	Very limited Restricted permeability	1.00	Very limited Slope	1.00
Dapoin-----	30	Very limited Restricted permeability	1.00	Very limited Slope	1.00
966: Cryaquepts-----	85	Very limited Flooding Depth to bedrock Depth to saturated zone Restricted permeability Content of large stones	1.00 1.00 1.00 0.46 0.25	Very limited Depth to hard bedrock Flooding Depth to saturated zone Seepage Content of large stones	1.00 1.00 1.00 0.53 0.07

Table 17.--Sanitary facilities--Continued

Map symbol and soil name	Pct. of map unit	Septic tank absorption fields		Sewage lagoons	
		Rating class and limiting features	Value	Rating class and limiting features	Value
967: Quazar-----	40	Very limited Slope Content of large stones Restricted permeability	1.00 0.97 0.46	Very limited Slope Content of large stones Seepage	1.00 1.00 0.53
Cryaquolls-----	25	Very limited Flooding Depth to saturated zone Seepage	1.00 1.00 1.00	Very limited Flooding Depth to saturated zone Seepage	1.00 1.00 1.00
Cryohemists-----	20	Very limited Flooding Depth to saturated zone Subsidence Restricted permeability	1.00 1.00 1.00 0.46	Very limited Flooding Seepage Depth to saturated zone Content of organic matter Slope	1.00 1.00 1.00 1.00 0.08
968: Nortez-----	50	Very limited Restricted permeability Depth to bedrock	1.00 1.00	Very limited Depth to hard bedrock Slope	1.00 1.00
Granath-----	35	Very limited Restricted permeability	1.00	Very limited Slope Seepage	1.00 0.28
969: Nortez-----	45	Very limited Restricted permeability Depth to bedrock	1.00 1.00	Very limited Depth to hard bedrock Slope	1.00 1.00
Fivepine-----	40	Very limited Depth to bedrock Content of large stones	1.00 0.06	Very limited Depth to hard bedrock Slope Content of large stones	1.00 1.00 0.09
972: Pagoda-----	35	Very limited Filtering capacity Restricted permeability Slope	1.00 1.00 1.00	Very limited Slope	1.00
Coulterg-----	30	Very limited Slope Restricted permeability	1.00 0.46	Very limited Slope Seepage	1.00 0.53

Table 17.--Sanitary facilities--Continued

Map symbol and soil name	Pct. of map unit	Septic tank absorption fields		Sewage lagoons	
		Rating class and limiting features	Value	Rating class and limiting features	Value
972: Wiggler-----	20	Very limited Depth to bedrock Slope	1.00 1.00	Very limited Depth to soft bedrock Slope	1.00 1.00
989: Ryman-----	90	Very limited Restricted permeability Slope	1.00 0.04	Very limited Slope	1.00
990: Ryman, warm-----	85	Very limited Restricted permeability Slope	1.00 0.04	Very limited Slope	1.00
992: Gladlow-----	85	Very limited Restricted permeability Slope	1.00 0.63	Very limited Slope	1.00
996: Zoltay-----	85	Very limited Restricted permeability Slope	1.00 0.04	Very limited Slope	1.00
997: Zigzag-----	40	Very limited Depth to bedrock Slope	1.00 1.00	Very limited Depth to soft bedrock Slope	1.00 1.00
Bodot-----	25	Very limited Restricted permeability Depth to bedrock Slope	1.00 1.00 1.00	Very limited Depth to soft bedrock Slope	1.00 1.00
Rock outcrop-----	25	Not rated		Not rated	

Table 18.--Sanitary facilities

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the limitation. See text for further explanation of ratings in this table.)

Map symbol and soil name	Pct. of map unit	Trench sanitary landfill		Area sanitary landfill		Daily cover for landfill	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
1: Bradfield-----	45	Very limited Too clayey	1.00	Not limited		Very limited Too clayey	1.00
Narraguinnep-----	40	Very limited Too clayey	1.00	Not limited		Very limited Too clayey	1.00
2: Hesperus-----	85	Very limited Depth to saturated zone Too clayey	1.00 0.50	Very limited Depth to saturated zone	1.00	Somewhat limited Too clayey	0.50
10: Lillings-----	85	Somewhat limited Flooding	0.40	Somewhat limited Flooding	0.40	Not limited	
12: Shawa-----	80	Somewhat limited Too clayey	0.50	Not limited		Somewhat limited Too clayey	0.50
13: Fughes-----	85	Very limited Too clayey	1.00	Not limited		Very limited Too clayey	1.00
14: Dalmatian-----	35	Very limited Depth to saturated zone Seepage Flooding	1.00 1.00 0.40	Very limited Depth to saturated zone Flooding	1.00 0.40	Not limited	
Apmay-----	35	Very limited Depth to saturated zone Seepage Flooding	1.00 1.00 0.40	Very limited Depth to saturated zone Seepage Flooding	1.00 1.00 0.40	Somewhat limited Gravel content Depth to saturated zone Seepage	0.98 0.86 0.52

Table 18.--Sanitary facilities--Continued

Map symbol and soil name	Pct. of map unit	Trench sanitary landfill		Area sanitary landfill		Daily cover for landfill	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
14: Schrader-----	15	Very limited Flooding Depth to saturated zone Seepage	1.00 1.00 1.00	Very limited Flooding Depth to saturated zone Seepage	1.00 1.00 1.00	Very limited Depth to saturated zone Seepage	0.99 0.52
15: Umbarg-----	80	Very limited Depth to saturated zone Too clayey Flooding	1.00 0.50 0.40	Very limited Depth to saturated zone Flooding	1.00 0.40	Somewhat limited Too clayey	0.50
16: Payter-----	85	Very limited Seepage Slope	1.00 0.04	Very limited Seepage Slope	1.00 0.04	Somewhat limited Seepage Slope	0.52 0.04
17: Fluvaquents-----	55	Very limited Flooding Depth to saturated zone Seepage	1.00 1.00 1.00	Very limited Flooding Depth to saturated zone Seepage	1.00 1.00 1.00	Very limited Seepage Depth to saturated zone Gravel content	1.00 0.99 0.43
Haplustolls-----	30	Very limited Depth to saturated zone Seepage Too sandy Flooding Content of large stones	1.00 1.00 1.00 0.40 0.03	Very limited Depth to saturated zone Seepage Flooding	1.00 1.00 0.40	Very limited Too sandy Seepage Content of large stones	1.00 1.00 0.03

Table 18.--Sanitary facilities--Continued

Map symbol and soil name	Pct. of map unit	Trench sanitary landfill		Area sanitary landfill		Daily cover for landfill	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
18: Endoaquolls-----	45	Very limited Flooding Depth to saturated zone Seepage Too sandy Content of large stones	1.00 1.00 1.00 1.00 0.26	Very limited Flooding Depth to saturated zone Seepage	1.00 1.00 1.00	Very limited Depth to saturated zone Too sandy Seepage Content of large stones	1.00 1.00 1.00 0.26
Ustifluvents-----	40	Very limited Flooding Depth to saturated zone Seepage Too sandy Content of large stones	1.00 1.00 1.00 1.00 0.32	Very limited Flooding Depth to saturated zone Seepage	1.00 1.00 1.00	Very limited Too sandy Seepage Content of large stones	1.00 1.00 0.32
20: Mavreeso-----	75	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
51: Clayburn-----	55	Very limited Slope Too clayey	1.00 0.50	Very limited Slope	1.00	Very limited Slope Too clayey	1.00 0.50
Hourglass-----	35	Very limited Slope Too clayey Content of large stones	1.00 0.50 0.01	Very limited Slope	1.00	Very limited Slope Too clayey Content of large stones	1.00 0.50 0.01
52: Ohwiler-----	80	Very limited Slope Too clayey	1.00 0.50	Very limited Slope	1.00	Very limited Slope Too clayey	1.00 0.50

Table 18.--Sanitary facilities--Continued

Map symbol and soil name	Pct. of map unit	Trench sanitary landfill		Area sanitary landfill		Daily cover for landfill	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
53: Cryaquolls-----	50	Very limited Flooding Depth to saturated zone Seepage	1.00 1.00 1.00	Very limited Flooding Depth to saturated zone Seepage	1.00 1.00 1.00	Very limited Depth to saturated zone Seepage Gravel content	1.00 0.16 0.01
Typic Cryaquents----	35	Very limited Flooding Depth to saturated zone Seepage Content of large stones	1.00 1.00 1.00 0.06	Very limited Flooding Depth to saturated zone Seepage	1.00 1.00 1.00	Very limited Depth to saturated zone Seepage Content of large stones	1.00 0.52 0.06
54: Quazar-----	90	Very limited Content of large stones Too clayey Slope	1.00 0.50 0.16	Somewhat limited Slope	0.16	Very limited Content of large stones Too clayey Slope	1.00 0.50 0.16
56: Typic Cryaquents----	35	Very limited Flooding Depth to saturated zone Seepage Content of large stones	1.00 1.00 1.00 0.08	Very limited Flooding Depth to saturated zone Seepage	1.00 1.00 1.00	Very limited Depth to saturated zone Seepage Content of large stones	1.00 0.52 0.08
Cryaquolls-----	30	Very limited Flooding Depth to saturated zone Seepage	1.00 1.00 1.00	Very limited Flooding Depth to saturated zone Seepage	1.00 1.00 1.00	Very limited Depth to saturated zone Seepage Gravel content	1.00 0.16 0.01

Table 18.--Sanitary facilities--Continued

Map symbol and soil name	Pct. of map unit	Trench sanitary landfill		Area sanitary landfill		Daily cover for landfill	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
56: Cryofibrists-----	25	Very limited Flooding Depth to saturated zone Content of organic matter Seepage	1.00 1.00 1.00 1.00	Very limited Flooding Depth to saturated zone Seepage	1.00 1.00 1.00	Very limited Content of organic matter Depth to saturated zone Seepage	1.00 0.99 0.22
57: Howardsville-----	80	Very limited Seepage Content of large stones Too sandy	1.00 1.00 0.50	Very limited Seepage	1.00	Very limited Seepage Content of large stones Too sandy	1.00 1.00 0.50
58: Fughes-----	55	Very limited Too clayey Slope	1.00 1.00	Very limited Slope	1.00	Very limited Too clayey Slope	1.00 1.00
Herm-----	35	Very limited Slope Too clayey	1.00 0.50	Very limited Slope	1.00	Very limited Slope Too clayey	1.00 0.50
59: Fughes-----	45	Very limited Slope Too clayey	1.00 1.00	Very limited Slope	1.00	Very limited Slope Too clayey	1.00 1.00
Herm-----	35	Very limited Slope Too clayey	1.00 0.50	Very limited Slope	1.00	Very limited Slope Too clayey	1.00 0.50
60: Grimes-----	90	Very limited Seepage Too sandy Content of large stones	1.00 1.00 0.99	Very limited Seepage	1.00	Very limited Too sandy Seepage Content of large stones Gravel content	1.00 1.00 0.99 0.14

Table 18.--Sanitary facilities--Continued

Map symbol and soil name	Pct. of map unit	Trench sanitary landfill		Area sanitary landfill		Daily cover for landfill	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
110: Sheek-----	45	Very limited Slope Content of large stones Too clayey	1.00 0.57 0.50	Very limited Slope	1.00	Very limited Slope Content of large stones Too clayey	1.00 0.57 0.50
Ormiston-----	35	Very limited Depth to bedrock Content of large stones Too clayey	1.00 0.99 0.50	Somewhat limited Depth to bedrock	0.88	Very limited Content of large stones Depth to bedrock Too clayey	0.99 0.88 0.50
111: Fardraw-----	80	Somewhat limited Content of large stones Too clayey Slope	0.98 0.50 0.04	Somewhat limited Slope	0.04	Somewhat limited Content of large stones Too clayey Slope	0.98 0.50 0.04
113: Dolores-----	80	Very limited Slope Too clayey Content of large stones	1.00 1.00 1.00	Very limited Slope	1.00	Very limited Slope Too clayey Hard to compact Content of large stones	1.00 1.00 1.00 1.00
150: Silex-----	70	Very limited Depth to bedrock Slope	1.00 1.00	Very limited Depth to bedrock Slope	1.00 1.00	Very limited Depth to bedrock Slope	1.00 1.00
Rock outcrop-----	20	Not rated		Not rated		Not rated	
151: Frisco-----	80	Very limited Content of large stones Slope	1.00 1.00	Very limited Slope	1.00	Very limited Content of large stones Slope	1.00 1.00

Table 18.--Sanitary facilities--Continued

Map symbol and soil name	Pct. of map unit	Trench sanitary landfill		Area sanitary landfill		Daily cover for landfill	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
152: Frisco-----	80	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope	1.00	Very limited Slope Content of large stones	1.00 1.00
153: Frisco-----	50	Very limited Content of large stones Slope	1.00 1.00	Very limited Slope	1.00	Very limited Content of large stones Slope	1.00 1.00
Horsethief-----	30	Very limited Slope Too clayey Content of large stones	1.00 0.50 0.28	Very limited Seepage Slope	1.00 1.00	Very limited Slope Too clayey Content of large stones	1.00 0.50 0.28
154: Frisco-----	60	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope	1.00	Very limited Slope Content of large stones	1.00 1.00
Horsethief-----	25	Very limited Slope Too clayey Content of large stones	1.00 0.50 0.28	Very limited Slope Seepage	1.00 1.00	Very limited Slope Too clayey Content of large stones	1.00 0.50 0.28
155: Tuckerville-----	70	Very limited Slope Seepage Content of large stones	1.00 1.00 1.00	Very limited Slope	1.00	Very limited Slope Content of large stones	1.00 1.00
Rock outcrop-----	20	Not rated		Not rated		Not rated	

Table 18.--Sanitary facilities--Continued

Map symbol and soil name	Pct. of map unit	Trench sanitary landfill		Area sanitary landfill		Daily cover for landfill	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
156: Sponsor-----	60	Very limited Slope Too clayey Content of large stones	1.00 0.50 0.02	Very limited Slope	1.00	Very limited Slope Too clayey Content of large stones	1.00 0.50 0.02
Tuckerville-----	30	Very limited Slope Seepage Content of large stones	1.00 1.00 1.00	Very limited Slope	1.00	Very limited Slope Content of large stones	1.00 1.00
157: Sponsor-----	60	Very limited Slope Too clayey Content of large stones	1.00 0.50 0.02	Very limited Slope	1.00	Very limited Slope Too clayey Content of large stones	1.00 0.50 0.02
Tuckerville-----	30	Very limited Slope Seepage Content of large stones	1.00 1.00 1.00	Very limited Slope	1.00	Very limited Slope Content of large stones	1.00 1.00
158: Sponsor-----	60	Very limited Slope Too clayey Content of large stones	1.00 0.50 0.02	Very limited Slope	1.00	Very limited Slope Too clayey Content of large stones	1.00 0.50 0.02
Tuckerville-----	30	Very limited Slope Seepage Content of large stones	1.00 1.00 1.00	Very limited Slope	1.00	Very limited Slope Content of large stones	1.00 1.00

Table 18.--Sanitary facilities--Continued

Map symbol and soil name	Pct. of map unit	Trench sanitary landfill		Area sanitary landfill		Daily cover for landfill	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
159: Tuckerville-----	80	Very limited Slope Seepage Content of large stones	1.00 1.00 1.00	Very limited Slope Seepage	1.00 1.00	Very limited Slope Content of large stones	1.00 1.00
160: Anvik-----	40	Very limited Slope	1.00	Very limited Slope Seepage	1.00 1.00	Very limited Slope	1.00
Tuckerville-----	35	Very limited Seepage Slope Content of large stones	1.00 1.00 1.00	Very limited Slope	1.00	Very limited Slope Content of large stones	1.00 1.00
161: Needleton-----	85	Very limited Content of large stones Slope	1.00 0.16	Somewhat limited Slope	0.16	Very limited Content of large stones Slope	1.00 0.16
162: Quazar-----	45	Very limited Slope Content of large stones Too clayey	1.00 0.90 0.50	Very limited Slope	1.00	Very limited Slope Content of large stones Gravel content Too clayey	1.00 0.90 0.60 0.50
Varden-----	40	Very limited Slope Seepage Content of large stones	1.00 1.00 1.00	Very limited Slope Seepage	1.00 1.00	Very limited Slope Seepage Content of large stones	1.00 1.00 1.00
163: Clayburn-----	50	Very limited Slope Too clayey	1.00 0.50	Very limited Slope	1.00	Very limited Slope Too clayey	1.00 0.50

Table 18.--Sanitary facilities--Continued

Map symbol and soil name	Pct. of map unit	Trench sanitary landfill		Area sanitary landfill		Daily cover for landfill	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
163: Hourglass-----	35	Very limited Slope Too clayey Content of large stones	1.00 0.50 0.01	Very limited Slope	1.00	Very limited Slope Too clayey Content of large stones	1.00 0.50 0.01
164: Hourglass-----	50	Very limited Slope Too clayey Content of large stones	1.00 0.50 0.01	Very limited Slope	1.00	Very limited Slope Too clayey Content of large stones	1.00 0.50 0.01
Bucklon-----	25	Very limited Slope Depth to bedrock	1.00 1.00	Very limited Slope Depth to bedrock	1.00 1.00	Very limited Depth to bedrock Slope	1.00 1.00
Wander-----	15	Very limited Slope Content of large stones Too clayey	1.00 1.00 0.50	Very limited Slope	1.00	Very limited Slope Content of large stones Too clayey	1.00 1.00 0.50
165: Pinacol-----	85	Very limited Content of large stones Too clayey	1.00 0.50	Not limited		Very limited Content of large stones Too clayey	1.00 0.50
166: Pinacol-----	80	Very limited Slope Content of large stones Too clayey	1.00 1.00 0.50	Very limited Slope	1.00	Very limited Slope Content of large stones Too clayey	1.00 1.00 0.50
250: Snowdon-----	55	Very limited Slope Depth to bedrock Content of large stones	1.00 1.00 1.00	Very limited Slope Depth to bedrock	1.00 1.00	Very limited Depth to bedrock Slope Content of large stones	1.00 1.00 1.00

Table 18.--Sanitary facilities--Continued

Map symbol and soil name	Pct. of map unit	Trench sanitary landfill		Area sanitary landfill		Daily cover for landfill	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
250: Rock outcrop-----	25	Not rated		Not rated		Not rated	
251: Rock outcrop-----	60	Not rated		Not rated		Not rated	
Snowdon-----	25	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Depth to bedrock	1.00
		Depth to bedrock	1.00	Depth to bedrock	1.00	Slope	1.00
254: Typic Cryorthents---	50	Content of large stones	1.00			Content of large stones	1.00
		Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
Rubble land-----	30	Content of large stones	1.00	Seepage	1.00	Content of large stones	1.00
		Seepage	1.00			Seepage	0.21
		Not rated		Not rated		Not rated	
330: Needleton-----	85	Very limited		Very limited		Very limited	
331: Needleton-----	80	Slope	1.00	Slope	1.00	Slope	1.00
		Content of large stones	1.00			Content of large stones	1.00
		Very limited		Very limited		Very limited	
332: Horsethief-----	55	Slope	1.00	Slope	1.00	Slope	1.00
		Content of large stones	1.00	Seepage	1.00	Content of large stones	1.00
		Too clayey	0.50			Too clayey	0.50

Table 18.--Sanitary facilities--Continued

Map symbol and soil name	Pct. of map unit	Trench sanitary landfill		Area sanitary landfill		Daily cover for landfill	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
332: Needleton-----	35	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope	1.00	Very limited Slope Content of large stones	1.00 1.00
333: Henson, south aspect	85	Very limited Content of large stones Slope	1.00 1.00	Very limited Slope	1.00	Very limited Content of large stones Slope	1.00 1.00
334: Henson, south aspect	80	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope	1.00	Very limited Slope Content of large stones	1.00 1.00
335: Whitecross-----	55	Very limited Slope Depth to bedrock Seepage Content of large stones	1.00 1.00 1.00 1.00	Very limited Slope Depth to bedrock	1.00 1.00	Very limited Depth to bedrock Slope Content of large stones Seepage	1.00 1.00 1.00 0.52
Rock outcrop-----	30	Not rated		Not rated		Not rated	
336: Whitecross, south aspect-----	50	Very limited Slope Depth to bedrock Seepage Content of large stones	1.00 1.00 1.00 1.00	Very limited Slope Depth to bedrock	1.00 1.00	Very limited Depth to bedrock Slope Content of large stones Seepage	1.00 1.00 1.00 0.52
Rock outcrop-----	25	Not rated		Not rated		Not rated	

Table 18.--Sanitary facilities--Continued

Map symbol and soil name	Pct. of map unit	Trench sanitary landfill		Area sanitary landfill		Daily cover for landfill	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
337: Whitcross-----	60	Very limited Slope Depth to bedrock Seepage Content of large stones	1.00 1.00 1.00 1.00	Very limited Slope Depth to bedrock	1.00 1.00	Very limited Depth to bedrock Slope Content of large stones Seepage	1.00 1.00 1.00 0.52
Rock outcrop-----	25	Not rated		Not rated		Not rated	
338: Henson-----	80	Very limited Content of large stones Slope	1.00 1.00	Very limited Slope	1.00	Very limited Content of large stones Slope	1.00 1.00
339: Henson-----	80	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope	1.00	Very limited Slope Content of large stones	1.00 1.00
340: Moran-----	80	Very limited Slope Content of large stones Seepage	1.00 1.00 1.00	Very limited Slope Seepage	1.00 1.00	Very limited Slope Content of large stones Seepage	1.00 1.00 0.22
341: Moran-----	80	Very limited Slope Content of large stones Seepage	1.00 1.00 1.00	Very limited Slope Seepage	1.00 1.00	Very limited Slope Content of large stones Seepage	1.00 1.00 0.22
342: Telluride-----	60	Very limited Slope Depth to bedrock Seepage Content of large stones	1.00 1.00 1.00 0.43	Very limited Slope Depth to bedrock	1.00 1.00	Very limited Depth to bedrock Slope Content of large stones Seepage	1.00 1.00 0.43 0.22

Table 18.--Sanitary facilities--Continued

Map symbol and soil name	Pct. of map unit	Trench sanitary landfill		Area sanitary landfill		Daily cover for landfill	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
342: Rock outcrop-----	20	Not rated		Not rated		Not rated	
343: Telluride-----	60	Very limited Slope Depth to bedrock Seepage Content of large stones	1.00 1.00 1.00 0.43	Very limited Slope Depth to bedrock	1.00 1.00	Very limited Depth to bedrock Slope Content of large stones Seepage	1.00 1.00 0.43 0.22
Rock outcrop-----	25	Not rated		Not rated		Not rated	
345: Papaspila-----	85	Somewhat limited Content of large stones Too clayey	0.98 0.50	Not limited		Somewhat limited Content of large stones Too clayey	0.98 0.50
350: Flygare-----	45	Very limited Content of large stones Too clayey	1.00 0.50	Not limited		Very limited Content of large stones Too clayey	1.00 0.50
Foidel-----	40	Somewhat limited Too clayey	0.50	Not limited		Somewhat limited Too clayey	0.50
355: Flygare-----	45	Very limited Slope Content of large stones Too clayey	1.00 1.00 0.50	Very limited Slope	1.00	Very limited Slope Content of large stones Too clayey	1.00 1.00 0.50
Foidel-----	40	Very limited Slope Too clayey	1.00 0.50	Very limited Slope	1.00	Very limited Slope Too clayey	1.00 0.50

Table 18.--Sanitary facilities--Continued

Map symbol and soil name	Pct. of map unit	Trench sanitary landfill		Area sanitary landfill		Daily cover for landfill	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
360: Blacksnag-----	45	Very limited Content of large stones Slope	1.00 0.04	Somewhat limited Slope	0.04	Very limited Content of large stones Slope	1.00 0.04
Peeler-----	40	Somewhat limited Slope	0.04	Somewhat limited Slope	0.04	Somewhat limited Slope	0.04
361: Blacksnag-----	45	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope	1.00	Very limited Slope Content of large stones	1.00 1.00
Peeler-----	40	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
374: Mavreeso-----	35	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
Valto-----	30	Very limited Slope Depth to bedrock Seepage Content of large stones	1.00 1.00 1.00 1.00	Very limited Slope Depth to bedrock	1.00 1.00	Very limited Depth to bedrock Slope Content of large stones Seepage	1.00 1.00 1.00 0.52
Rock outcrop-----	20	Not rated		Not rated		Not rated	
375: Needleton-----	55	Very limited Content of large stones Slope	1.00 0.16	Somewhat limited Slope	0.16	Very limited Content of large stones Slope	1.00 0.16
Snowdon-----	30	Very limited Depth to bedrock Content of large stones Slope	1.00 1.00 0.16	Very limited Depth to bedrock Slope	1.00 0.16	Very limited Depth to bedrock Content of large stones Slope	1.00 1.00 0.16

Table 18.--Sanitary facilities--Continued

Map symbol and soil name	Pct. of map unit	Trench sanitary landfill		Area sanitary landfill		Daily cover for landfill	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
376: Needleton-----	80	Very limited Slope Content of large stones	1.00 0.95	Very limited Slope	1.00	Very limited Slope Content of large stones	1.00 0.95
378: Needleton-----	65	Very limited Slope Content of large stones	1.00 0.95	Very limited Slope	1.00	Very limited Slope Content of large stones	1.00 0.95
Haviland-----	25	Very limited Slope Too clayey	1.00 0.50	Very limited Slope	1.00	Very limited Slope Too clayey	1.00 0.50
380: Snowdon-----	50	Very limited Depth to bedrock Slope Content of large stones	1.00 1.00 0.99	Very limited Depth to bedrock Slope	1.00 1.00	Very limited Depth to bedrock Slope Content of large stones	1.00 1.00 0.99
Rock outcrop-----	35	Not rated		Not rated		Not rated	
381: Needleton-----	45	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope	1.00	Very limited Slope Content of large stones	1.00 1.00
Snowdon-----	30	Very limited Slope Depth to bedrock Content of large stones	1.00 1.00 1.00	Very limited Slope Depth to bedrock	1.00 1.00	Very limited Depth to bedrock Slope Content of large stones	1.00 1.00 1.00
Rock outcrop-----	15	Not rated		Not rated		Not rated	

Table 18.--Sanitary facilities--Continued

Map symbol and soil name	Pct. of map unit	Trench sanitary landfill		Area sanitary landfill		Daily cover for landfill	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
382: Needleton-----	50	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope	1.00	Very limited Slope Content of large stones	1.00 1.00
Snowdon-----	30	Very limited Slope Depth to bedrock Content of large stones	1.00 1.00 1.00	Very limited Slope Depth to bedrock	1.00 1.00	Very limited Depth to bedrock Slope Content of large stones	1.00 1.00 1.00
383: Haviland-----	50	Very limited Slope Too clayey	1.00 0.50	Very limited Slope	1.00	Very limited Slope Too clayey	1.00 0.50
Needleton-----	35	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope	1.00	Very limited Slope Content of large stones	1.00 1.00
386: Needleton-----	70	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope	1.00	Very limited Slope Content of large stones	1.00 1.00
387: Frisco-----	50	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope	1.00	Very limited Slope Content of large stones	1.00 1.00
Quazar-----	40	Very limited Slope Content of large stones Too clayey	1.00 0.88 0.50	Very limited Slope	1.00	Very limited Slope Content of large stones Gravel content Too clayey	1.00 0.88 0.63 0.50

Table 18.--Sanitary facilities--Continued

Map symbol and soil name	Pct. of map unit	Trench sanitary landfill		Area sanitary landfill		Daily cover for landfill	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
388: Frisco-----	50	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope	1.00	Very limited Slope Content of large stones	1.00 1.00
Quazar-----	45	Very limited Slope Content of large stones Too clayey	1.00 0.88 0.50	Very limited Slope	1.00	Very limited Slope Content of large stones Gravel content Too clayey	1.00 0.88 0.63 0.50
389: Seitz-----	85	Very limited Too clayey Slope Content of large stones	1.00 1.00 1.00	Very limited Slope	1.00	Very limited Too clayey Hard to compact Slope Content of large stones	1.00 1.00 1.00 1.00
390: Clayburn-----	40	Very limited Slope Too clayey	1.00 0.50	Very limited Slope	1.00	Very limited Slope Too clayey	1.00 0.50
Heisspitz-----	30	Very limited Slope Depth to bedrock	1.00 1.00	Very limited Slope Depth to bedrock	1.00 1.00	Very limited Depth to bedrock Slope	1.00 1.00
391: Runlett-----	50	Very limited Depth to bedrock Too clayey Slope	1.00 1.00 1.00	Very limited Depth to bedrock Slope	1.00 1.00	Very limited Depth to bedrock Too clayey Slope	1.00 1.00 1.00
Sessions-----	30	Very limited Too clayey Slope	1.00 1.00	Very limited Slope	1.00	Very limited Too clayey Slope	1.00 1.00

Table 18.--Sanitary facilities--Continued

Map symbol and soil name	Pct. of map unit	Trench sanitary landfill		Area sanitary landfill		Daily cover for landfill	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
392: Runlett-----	30	Very limited Slope Depth to bedrock Too clayey	1.00 1.00 1.00	Very limited Slope Depth to bedrock	1.00 1.00	Very limited Depth to bedrock Slope Too clayey	1.00 1.00 1.00
Needleton-----	30	Very limited Slope Content of large stones	1.00 0.95	Very limited Slope	1.00	Very limited Slope Content of large stones	1.00 0.95
Sessions-----	20	Very limited Slope Too clayey	1.00 1.00	Very limited Slope	1.00	Very limited Slope Too clayey	1.00 1.00
393: Heisspitz-----	50	Very limited Depth to bedrock Slope	1.00 0.16	Very limited Depth to bedrock Slope	1.00 0.16	Very limited Depth to bedrock Slope	1.00 0.16
Sessions-----	25	Very limited Too clayey Slope	1.00 0.16	Somewhat limited Slope	0.16	Very limited Too clayey Slope	1.00 0.16
Rock outcrop-----	20	Not rated		Not rated		Not rated	
394: Clayburn-----	55	Very limited Slope Too clayey	1.00 0.50	Very limited Slope	1.00	Very limited Slope Too clayey	1.00 0.50
Heisspitz-----	30	Very limited Slope Depth to bedrock	1.00 1.00	Very limited Slope Depth to bedrock	1.00 1.00	Very limited Depth to bedrock Slope	1.00 1.00
395: Scout-----	85	Very limited Seepage Slope Content of large stones	1.00 1.00 1.00	Very limited Seepage Slope	1.00 1.00	Very limited Slope Content of large stones Seepage	1.00 1.00 0.52

Table 18.--Sanitary facilities--Continued

Map symbol and soil name	Pct. of map unit	Trench sanitary landfill		Area sanitary landfill		Daily cover for landfill	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
396: Scout-----	85	Very limited Slope Seepage Content of large stones	1.00 1.00 1.00	Very limited Slope Seepage	1.00 1.00	Very limited Slope Content of large stones Seepage	1.00 1.00 0.52
399: Kite-----	40	Very limited Slope Depth to bedrock Seepage	1.00 1.00 1.00	Very limited Slope Depth to bedrock	1.00 1.00	Very limited Depth to bedrock Slope Seepage	1.00 1.00 0.52
Rock outcrop-----	35	Not rated		Not rated		Not rated	
450: Lostlake-----	45	Very limited Slope Depth to bedrock	1.00 1.00	Very limited Slope Depth to bedrock	1.00 1.00	Very limited Depth to bedrock Slope	1.00 1.00
Rock outcrop-----	35	Not rated		Not rated		Not rated	
452: Dystrocryepts-----	55	Very limited Slope Depth to bedrock	1.00 1.00	Very limited Slope Depth to bedrock	1.00 1.00	Very limited Depth to bedrock Slope Gravel content	1.00 1.00 0.20
Rock outcrop-----	35	Not rated		Not rated		Not rated	
453: Sig-----	40	Very limited Slope Depth to bedrock	1.00 1.00	Very limited Slope Depth to bedrock	1.00 1.00	Very limited Depth to bedrock Slope Gravel content	1.00 1.00 0.18
Rock outcrop-----	30	Not rated		Not rated		Not rated	
Snowdon-----	20	Very limited Slope Depth to bedrock Content of large stones	1.00 1.00 1.00	Very limited Slope Depth to bedrock	1.00 1.00	Very limited Depth to bedrock Slope Content of large stones	1.00 1.00 1.00

Table 18.--Sanitary facilities--Continued

Map symbol and soil name	Pct. of map unit	Trench sanitary landfill		Area sanitary landfill		Daily cover for landfill	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
454: Snowdon-----	35	Very limited Slope Depth to bedrock Content of large stones	1.00 1.00 1.00	Very limited Slope Depth to bedrock	1.00 1.00	Very limited Depth to bedrock Slope Content of large stones	1.00 1.00 1.00
Sig-----	30	Very limited Slope Depth to bedrock	1.00 1.00	Very limited Slope Depth to bedrock	1.00 1.00	Very limited Depth to bedrock Slope Gravel content	1.00 1.00 0.18
Rock outcrop-----	25	Not rated		Not rated		Not rated	
493: Badland-----	90	Not rated		Not rated		Not rated	
494: Pits, gravel-----	100	Not rated		Not rated		Not rated	
495: Riverwash-----	85	Not rated		Not rated		Not rated	
496: Rock outcrop-----	70	Not rated		Not rated		Not rated	
497: Rubble land-----	80	Not rated		Not rated		Not rated	
498: Slickens-----	80	Not rated		Not rated		Not rated	
499: Water-----	100	Not rated		Not rated		Not rated	
500: Dolores-----	50	Very limited Too clayey Content of large stones	1.00 1.00	Not limited		Very limited Too clayey Hard to compact Content of large stones	1.00 1.00 1.00

Table 18.--Sanitary facilities--Continued

Map symbol and soil name	Pct. of map unit	Trench sanitary landfill		Area sanitary landfill		Daily cover for landfill	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
500: Fivepine-----	35	Very limited Depth to bedrock Too clayey Content of large stones	1.00 1.00 0.32	Very limited Depth to bedrock	1.00	Very limited Depth to bedrock Too clayey Content of large stones	1.00 1.00 0.32
501: Fivepine-----	60	Very limited Depth to bedrock Too clayey Content of large stones	1.00 1.00 0.32	Very limited Depth to bedrock	1.00	Very limited Depth to bedrock Too clayey Content of large stones	1.00 1.00 0.32
Nortez-----	25	Very limited Depth to bedrock Too clayey	1.00 0.50	Very limited Depth to bedrock	1.00	Very limited Depth to bedrock Hard to compact Too clayey	1.00 1.00 0.50
503: Ormiston-----	50	Very limited Depth to bedrock Content of large stones Too clayey	1.00 1.00 0.50	Somewhat limited Depth to bedrock	0.88	Very limited Content of large stones Depth to bedrock Too clayey	1.00 0.88 0.50
Fivepine-----	35	Very limited Depth to bedrock Too clayey Content of large stones	1.00 1.00 0.32	Very limited Depth to bedrock	1.00	Very limited Depth to bedrock Too clayey Content of large stones	1.00 1.00 0.32
504: Jemco-----	40	Very limited Depth to bedrock Too clayey	1.00 0.50	Very limited Depth to bedrock	1.00	Very limited Depth to bedrock Too clayey	1.00 0.50
Detra-----	30	Very limited Depth to bedrock	1.00	Somewhat limited Depth to bedrock	0.02	Somewhat limited Depth to bedrock	0.02
Beje-----	20	Very limited Depth to bedrock Too clayey	1.00 0.50	Very limited Depth to bedrock	1.00	Very limited Depth to bedrock Too clayey	1.00 0.50

Table 18.--Sanitary facilities--Continued

Map symbol and soil name	Pct. of map unit	Trench sanitary landfill		Area sanitary landfill		Daily cover for landfill	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
505: Moento-----	80	Very limited Depth to bedrock Seepage Too clayey	1.00 1.00 0.50	Very limited Depth to bedrock Seepage	1.00 1.00	Very limited Depth to bedrock Too clayey	1.00 0.50
506: Moento-----	35	Very limited Depth to bedrock Seepage Too clayey	1.00 1.00 0.50	Very limited Depth to bedrock Seepage	1.00 1.00	Very limited Depth to bedrock Too clayey	1.00 0.50
Detra-----	30	Very limited Depth to bedrock Slope	1.00 0.04	Somewhat limited Slope Depth to bedrock	0.04 0.02	Somewhat limited Slope Depth to bedrock	0.04 0.02
Jemco-----	20	Very limited Depth to bedrock Too clayey	1.00 0.50	Very limited Depth to bedrock	1.00	Very limited Depth to bedrock Too clayey	1.00 0.50
508: Herm-----	50	Somewhat limited Too clayey	0.50	Not limited		Somewhat limited Too clayey	0.50
Pagoda-----	35	Somewhat limited Too clayey	0.50	Not limited		Somewhat limited Too clayey	0.50
509: Burnson, dry-----	80	Very limited Depth to bedrock Too clayey	1.00 1.00	Somewhat limited Depth to bedrock	0.88	Very limited Too clayey Depth to bedrock	1.00 0.88
510: Jemco-----	60	Very limited Depth to bedrock Too clayey	1.00 0.50	Very limited Depth to bedrock	1.00	Very limited Depth to bedrock Too clayey	1.00 0.50
Moento-----	25	Very limited Depth to bedrock Seepage Too clayey	1.00 1.00 0.50	Very limited Depth to bedrock Seepage	1.00 1.00	Very limited Depth to bedrock Too clayey	1.00 0.50

Table 18.--Sanitary facilities--Continued

Map symbol and soil name	Pct. of map unit	Trench sanitary landfill		Area sanitary landfill		Daily cover for landfill	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
511: Granath-----	50	Somewhat limited Too clayey	0.50	Not limited		Somewhat limited Too clayey	0.50
Fughes-----	35	Very limited Too clayey	1.00	Not limited		Very limited Too clayey	1.00
512: Wetherill-----	85	Not limited		Not limited		Not limited	
513: Maudrey-----	50	Very limited Too clayey	1.00	Not limited		Very limited Too clayey Hard to compact	1.00 1.00
Tombac-----	35	Very limited Too clayey	1.00	Not limited		Very limited Too clayey Hard to compact	1.00 1.00
525: Arabrab-----	85	Very limited Depth to bedrock	1.00	Very limited Depth to bedrock	1.00	Very limited Depth to bedrock	1.00
526: Lonecone-----	80	Very limited Depth to bedrock	1.00	Very limited Depth to bedrock	1.00	Very limited Depth to bedrock	1.00
527: Ormiston-----	50	Very limited Depth to bedrock Content of large stones Slope Too clayey	1.00 1.00 1.00 0.50	Very limited Slope Depth to bedrock	1.00 0.88	Very limited Hard to compact Content of large stones Slope Depth to bedrock Too clayey	1.00 1.00 1.00 0.88 0.50
Beje-----	35	Very limited Depth to bedrock Slope Too clayey	1.00 1.00 0.50	Very limited Depth to bedrock Slope	1.00 1.00	Very limited Depth to bedrock Slope Too clayey	1.00 1.00 0.50

Table 18.--Sanitary facilities--Continued

Map symbol and soil name	Pct. of map unit	Trench sanitary landfill		Area sanitary landfill		Daily cover for landfill	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
552: Burnson-----	80	Very limited Depth to bedrock Too clayey	1.00 1.00	Somewhat limited Depth to bedrock	0.88	Very limited Too clayey Depth to bedrock	1.00 0.88
553: Burnson-----	50	Very limited Slope Depth to bedrock Too clayey	1.00 1.00 1.00	Very limited Slope Depth to bedrock	1.00 0.88	Very limited Slope Too clayey Hard to compact Depth to bedrock	1.00 1.00 1.00 0.88
Herm-----	30	Very limited Slope Too clayey	1.00 0.50	Very limited Slope	1.00	Very limited Slope Too clayey	1.00 0.50
571: Mancos-----	40	Very limited Depth to bedrock	1.00	Very limited Depth to bedrock	1.00	Very limited Depth to bedrock	1.00
Skisams-----	35	Very limited Depth to bedrock	1.00	Very limited Depth to bedrock	1.00	Very limited Depth to bedrock	1.00
Skutum-----	20	Very limited Depth to bedrock Too clayey	1.00 0.50	Somewhat limited Depth to bedrock	0.18	Somewhat limited Too clayey Depth to bedrock	0.50 0.18
572: Sudduth-----	85	Very limited Depth to saturated zone Too clayey	1.00 0.50	Very limited Depth to saturated zone	1.00	Somewhat limited Too clayey	0.50
600: Valto-----	50	Very limited Depth to bedrock Seepage Slope Content of large stones	1.00 1.00 1.00 1.00	Very limited Depth to bedrock Slope	1.00 1.00	Very limited Depth to bedrock Slope Content of large stones Seepage	1.00 1.00 1.00 0.52
Rock outcrop-----	35	Not rated		Not rated		Not rated	

Table 18.--Sanitary facilities--Continued

Map symbol and soil name	Pct. of map unit	Trench sanitary landfill		Area sanitary landfill		Daily cover for landfill	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
601: Weminuche-----	85	Very limited Slope Too clayey	1.00 0.50	Very limited Slope Seepage	1.00 1.00	Very limited Slope Too clayey	1.00 0.50
602: Weminuche-----	85	Very limited Slope Too clayey	1.00 0.50	Very limited Slope Seepage	1.00 1.00	Very limited Slope Too clayey	1.00 0.50
603: Weminuche-----	55	Very limited Slope Too clayey	1.00 0.50	Very limited Slope Seepage	1.00 1.00	Very limited Slope Too clayey	1.00 0.50
Anvik-----	25	Very limited Slope	1.00	Very limited Slope Seepage	1.00 1.00	Very limited Slope	1.00
605: Nordicol-----	80	Very limited Seepage Content of large stones Slope	1.00 1.00 1.00	Very limited Seepage Slope	1.00 1.00	Very limited Content of large stones Slope	1.00 1.00
606: Snowdon-----	50	Very limited Slope Depth to bedrock Content of large stones	1.00 1.00 1.00	Very limited Slope Depth to bedrock	1.00 1.00	Very limited Depth to bedrock Slope Content of large stones	1.00 1.00 1.00
Needleton-----	35	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope	1.00	Very limited Slope Content of large stones	1.00 1.00
607: Graysill-----	45	Very limited Slope Depth to bedrock Too clayey	1.00 1.00 0.50	Very limited Slope Depth to bedrock	1.00 1.00	Very limited Depth to bedrock Slope Too clayey	1.00 1.00 0.50

Table 18.--Sanitary facilities--Continued

Map symbol and soil name	Pct. of map unit	Trench sanitary landfill		Area sanitary landfill		Daily cover for landfill	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
607: Scotch-----	35	Very limited Slope Depth to bedrock Too clayey	1.00 1.00 0.50	Very limited Slope Depth to bedrock	1.00 1.00	Very limited Depth to bedrock Slope Too clayey	1.00 1.00 0.50
608: Scotch-----	45	Very limited Slope Depth to bedrock Too clayey	1.00 1.00 0.50	Very limited Slope Depth to bedrock	1.00 1.00	Very limited Depth to bedrock Slope Too clayey	1.00 1.00 0.50
Graysill-----	35	Very limited Slope Depth to bedrock Too clayey	1.00 1.00 0.50	Very limited Slope Depth to bedrock	1.00 1.00	Very limited Depth to bedrock Slope Too clayey	1.00 1.00 0.50
609: Hourglass-----	50	Very limited Slope Too clayey Content of large stones	1.00 0.50 0.01	Very limited Slope	1.00	Very limited Slope Too clayey Content of large stones	1.00 0.50 0.01
Wander-----	35	Very limited Slope Content of large stones Too clayey	1.00 1.00 0.50	Very limited Slope	1.00	Very limited Slope Content of large stones Too clayey	1.00 1.00 0.50
610: Wander-----	45	Very limited Slope Content of large stones Too clayey	1.00 1.00 0.50	Very limited Slope	1.00	Very limited Slope Content of large stones Too clayey	1.00 1.00 0.50
Hotter-----	30	Very limited Slope Depth to bedrock Seepage Content of large stones	1.00 1.00 1.00 1.00	Very limited Slope Depth to bedrock	1.00 1.00	Very limited Depth to bedrock Slope Content of large stones Seepage	1.00 1.00 1.00 0.52

Table 18.--Sanitary facilities--Continued

Map symbol and soil name	Pct. of map unit	Trench sanitary landfill		Area sanitary landfill		Daily cover for landfill	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
610: Hourglass-----	15	Very limited Slope Too clayey Content of large stones	1.00 0.50 0.01	Very limited Slope	1.00	Very limited Slope Too clayey Content of large stones	1.00 0.50 0.01
611: Goldbug-----	85	Very limited Too clayey Slope Content of large stones	1.00 1.00 0.97	Very limited Seepage Slope	1.00 1.00	Very limited Too clayey Slope Content of large stones	1.00 1.00 0.97
612: Haviland-----	50	Very limited Slope Too clayey	1.00 0.50	Very limited Slope	1.00	Very limited Slope Too clayey	1.00 0.50
Graysill-----	35	Very limited Depth to bedrock Slope Too clayey	1.00 1.00 0.50	Very limited Depth to bedrock Slope	1.00 1.00	Very limited Depth to bedrock Slope Too clayey	1.00 1.00 0.50
615: Haviland-----	75	Very limited Slope Too clayey	1.00 0.50	Very limited Slope	1.00	Very limited Slope Too clayey	1.00 0.50
616: Fortlewis-----	85	Very limited Depth to bedrock Too clayey	1.00 1.00	Very limited Depth to bedrock	1.00	Very limited Depth to bedrock Too clayey	1.00 1.00
617: Shawa-----	85	Somewhat limited Slope Too clayey	0.74 0.50	Somewhat limited Slope	0.74	Somewhat limited Slope Too clayey	0.74 0.50

Table 18.--Sanitary facilities--Continued

Map symbol and soil name	Pct. of map unit	Trench sanitary landfill		Area sanitary landfill		Daily cover for landfill	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
618: Nordicol-----	50	Very limited Slope Seepage Content of large stones	1.00 1.00 1.00	Very limited Slope Seepage	1.00 1.00	Very limited Slope Content of large stones	1.00 1.00
Valto-----	35	Very limited Slope Depth to bedrock Seepage Content of large stones	1.00 1.00 1.00 1.00	Very limited Slope Depth to bedrock	1.00 1.00	Very limited Depth to bedrock Slope Content of large stones Seepage	1.00 1.00 1.00 0.52
619: Nordicol-----	80	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope Seepage	1.00 1.00	Very limited Slope Content of large stones	1.00 1.00
620: Caviness-----	90	Very limited Slope Depth to bedrock Too clayey	1.00 1.00 1.00	Very limited Slope Depth to bedrock	1.00 0.01	Very limited Slope Too clayey Depth to bedrock	1.00 1.00 0.01
621: Granturk-----	85	Very limited Depth to bedrock Seepage Slope	1.00 1.00 1.00	Very limited Depth to bedrock Slope	1.00 1.00	Very limited Depth to bedrock Slope	1.00 1.00
622: Granturk-----	60	Very limited Slope Depth to bedrock Seepage	1.00 1.00 1.00	Very limited Slope Depth to bedrock	1.00 1.00	Very limited Depth to bedrock Slope	1.00 1.00
Rock outcrop-----	30	Not rated		Not rated		Not rated	

Table 18.--Sanitary facilities--Continued

Map symbol and soil name	Pct. of map unit	Trench sanitary landfill		Area sanitary landfill		Daily cover for landfill	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
623: Chris-----	50	Very limited Slope Content of large stones	1.00 0.05	Very limited Slope	1.00	Very limited Slope Gravel content Content of large stones	1.00 0.07 0.05
Nordicol-----	40	Very limited Slope Seepage Content of large stones	1.00 1.00 1.00	Very limited Slope Seepage	1.00 1.00	Very limited Slope Content of large stones	1.00 1.00
699: Haplocryolls-----	40	Very limited Depth to bedrock Slope Content of large stones	1.00 1.00 1.00	Very limited Slope	1.00	Very limited Slope Content of large stones	1.00 1.00
Rubble land-----	40	Not rated		Not rated		Not rated	
700: Bradfield-----	90	Very limited Too clayey	1.00	Not limited		Very limited Too clayey	1.00
703: Narraguinnep-----	80	Very limited Slope Too clayey	1.00 1.00	Very limited Slope	1.00	Very limited Slope Too clayey	1.00 1.00
704: Gladlow-----	30	Somewhat limited Too clayey Slope	0.50 0.04	Somewhat limited Slope	0.04	Somewhat limited Too clayey Slope	0.50 0.04
Rock outcrop-----	30	Not rated		Not rated		Not rated	
Ruko-----	20	Very limited Depth to bedrock Too clayey Slope	1.00 0.50 0.04	Very limited Depth to bedrock Slope	1.00 0.04	Very limited Depth to bedrock Too clayey Slope	1.00 0.50 0.04

Table 18.--Sanitary facilities--Continued

Map symbol and soil name	Pct. of map unit	Trench sanitary landfill		Area sanitary landfill		Daily cover for landfill	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
705: Helmet-----	80	Very limited Too clayey	1.00	Not limited		Very limited Too clayey Hard to compact	1.00 1.00
706: Narraguinnep-----	85	Very limited Too clayey Slope	1.00 0.16	Somewhat limited Slope	0.16	Very limited Too clayey Slope	1.00 0.16
707: Teedown-----	50	Very limited Too clayey Slope	1.00 0.16	Somewhat limited Slope	0.16	Very limited Too clayey Slope	1.00 0.16
Nordicol-----	35	Very limited Content of large stones Slope	1.00 0.16	Very limited Seepage Slope	1.00 0.16	Very limited Content of large stones Slope	1.00 0.16
708: Helmet-----	80	Very limited Slope Too clayey	1.00 1.00	Very limited Slope	1.00	Very limited Slope Too clayey	1.00 1.00
709: Teedown-----	85	Very limited Too clayey	1.00	Not limited		Very limited Too clayey	1.00
710: Sili-----	50	Somewhat limited Slope	0.16	Somewhat limited Slope	0.16	Somewhat limited Slope	0.16
Zigzag-----	30	Very limited Depth to bedrock Slope	1.00 0.16	Somewhat limited Slope	0.16	Very limited Depth to bedrock Slope	1.00 0.16
711: Sili-----	85	Somewhat limited Slope	0.16	Somewhat limited Slope	0.16	Somewhat limited Slope	0.16

Table 18.--Sanitary facilities--Continued

Map symbol and soil name	Pct. of map unit	Trench sanitary landfill		Area sanitary landfill		Daily cover for landfill	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
714: Helmet-----	80	Very limited Slope Too clayey	1.00 1.00	Very limited Slope	1.00	Very limited Slope Too clayey	1.00 1.00
718: Naraguinnep-----	50	Very limited Too clayey Slope	1.00 1.00	Very limited Slope	1.00	Very limited Too clayey Slope	1.00 1.00
Gladlow-----	40	Very limited Slope Too clayey	1.00 0.50	Very limited Slope	1.00	Very limited Slope Too clayey	1.00 0.50
720: Zigzag-----	45	Very limited Slope Depth to bedrock	1.00 1.00	Very limited Slope	1.00	Very limited Depth to bedrock Slope	1.00 1.00
Rock outcrop-----	35	Not rated		Not rated		Not rated	
723: Zigzag-----	50	Very limited Slope Depth to bedrock	1.00 1.00	Very limited Slope	1.00	Very limited Depth to bedrock Slope	1.00 1.00
Rock outcrop-----	40	Not rated		Not rated		Not rated	
725: Shawa-----	85	Very limited Slope Too clayey	1.00 0.50	Very limited Slope	1.00	Very limited Slope Too clayey	1.00 0.50
727: Teedown-----	50	Very limited Slope Too clayey	1.00 1.00	Very limited Slope	1.00	Very limited Slope Too clayey	1.00 1.00
Nordicol-----	35	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope Seepage	1.00 1.00	Very limited Slope Content of large stones	1.00 1.00

Table 18.--Sanitary facilities--Continued

Map symbol and soil name	Pct. of map unit	Trench sanitary landfill		Area sanitary landfill		Daily cover for landfill	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
730: Baird Hollow-----	35	Very limited Slope Too clayey Content of large stones	1.00 0.50 0.31	Very limited Slope	1.00	Very limited Slope Too clayey Content of large stones	1.00 0.50 0.31
Nordicol-----	30	Very limited Slope Seepage Content of large stones	1.00 1.00 1.00	Very limited Slope Seepage	1.00 1.00	Very limited Slope Content of large stones	1.00 1.00
Ryman-----	25	Very limited Slope Too clayey	1.00 0.50	Very limited Slope	1.00	Very limited Slope Too clayey	1.00 0.50
731: Ryman-----	60	Somewhat limited Too clayey	0.50	Not limited		Somewhat limited Too clayey	0.50
Adel-----	30	Somewhat limited Too clayey	0.50	Not limited		Somewhat limited Too clayey	0.50
732: Adel-----	50	Very limited Slope Too clayey	1.00 0.50	Very limited Slope	1.00	Very limited Slope Too clayey	1.00 0.50
Quazar-----	40	Very limited Slope Content of large stones Too clayey	1.00 0.88 0.50	Very limited Slope	1.00	Very limited Slope Content of large stones Gravel content Too clayey	1.00 0.88 0.63 0.50
733: Adel-----	70	Very limited Slope Too clayey	1.00 0.50	Very limited Slope	1.00	Very limited Slope Too clayey	1.00 0.50

Table 18.--Sanitary facilities--Continued

Map symbol and soil name	Pct. of map unit	Trench sanitary landfill		Area sanitary landfill		Daily cover for landfill	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
733: Bucklon-----	20	Very limited Depth to bedrock Slope	1.00 1.00	Very limited Depth to bedrock Slope	1.00 1.00	Very limited Depth to bedrock Slope	1.00 1.00
734: Ryman-----	60	Somewhat limited Too clayey	0.50	Not limited		Somewhat limited Too clayey	0.50
Clayburn-----	30	Somewhat limited Too clayey	0.50	Not limited		Somewhat limited Too clayey	0.50
740: Cowtown-----	50	Very limited Too clayey Slope	1.00 1.00	Very limited Slope	1.00	Very limited Too clayey Slope	1.00 1.00
Scout-----	30	Very limited Seepage Slope Content of large stones	1.00 1.00 1.00	Very limited Seepage Slope	1.00 1.00	Very limited Slope Content of large stones Seepage	1.00 1.00 0.52
741: Cowtown-----	45	Very limited Slope Too clayey	1.00 1.00	Very limited Slope	1.00	Very limited Slope Too clayey	1.00 1.00
Scout-----	35	Very limited Slope Seepage Content of large stones	1.00 1.00 1.00	Very limited Slope Seepage	1.00 1.00	Very limited Slope Content of large stones Seepage	1.00 1.00 0.52
750: Archuleta-----	50	Very limited Depth to bedrock Slope Too clayey	1.00 1.00 0.50	Very limited Depth to bedrock Slope	1.00 1.00	Very limited Depth to bedrock Slope Too clayey	1.00 1.00 0.50

Table 18.--Sanitary facilities--Continued

Map symbol and soil name	Pct. of map unit	Trench sanitary landfill		Area sanitary landfill		Daily cover for landfill	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
750: Sheek-----	35	Very limited Slope Content of large stones Too clayey	1.00 1.00 0.50	Very limited Slope	1.00	Very limited Slope Content of large stones Too clayey	1.00 1.00 0.50
801: Fughes-----	50	Very limited Slope Too clayey	1.00 1.00	Very limited Slope	1.00	Very limited Slope Too clayey	1.00 1.00
Sheek-----	35	Very limited Slope Content of large stones Too clayey	1.00 0.57 0.50	Very limited Slope	1.00	Very limited Slope Content of large stones Too clayey	1.00 0.57 0.50
802: Argiustolls-----	30	Very limited Slope Depth to bedrock Content of large stones Too clayey	1.00 1.00 0.78 0.50	Very limited Slope	1.00	Very limited Slope Hard to compact Content of large stones Too clayey	1.00 1.00 0.78 0.50
Haplustalfs-----	30	Very limited Slope Depth to bedrock Too clayey Content of large stones	1.00 1.00 1.00 1.00	Very limited Slope	1.00	Very limited Slope Too clayey Content of large stones	1.00 1.00 1.00
Rock outcrop-----	25	Not rated		Not rated		Not rated	
804: Wauquie-----	40	Very limited Slope Content of large stones	1.00 0.72	Very limited Slope	1.00	Very limited Slope Content of large stones	1.00 0.72

Table 18.--Sanitary facilities--Continued

Map symbol and soil name	Pct. of map unit	Trench sanitary landfill		Area sanitary landfill		Daily cover for landfill	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
804: Dolcan-----	25	Very limited Slope Depth to bedrock Content of large stones	1.00 1.00 0.01	Very limited Slope	1.00	Very limited Depth to bedrock Slope Content of large stones	1.00 1.00 0.01
Rock outcrop-----	20	Not rated		Not rated		Not rated	
805: Shawa-----	50	Very limited Slope Too clayey	1.00 0.50	Very limited Slope	1.00	Very limited Slope Too clayey	1.00 0.50
Fughes-----	40	Very limited Slope Too clayey	1.00 1.00	Very limited Slope	1.00	Very limited Slope Too clayey	1.00 1.00
806: Shawa-----	45	Very limited Slope Too clayey	1.00 0.50	Very limited Slope	1.00	Very limited Slope Too clayey	1.00 0.50
Fughes-----	35	Very limited Slope Too clayey	1.00 1.00	Very limited Slope	1.00	Very limited Slope Too clayey	1.00 1.00
809: Argiustolls-----	45	Very limited Slope Depth to bedrock Content of large stones Too clayey	1.00 1.00 0.78 0.50	Very limited Slope	1.00	Very limited Slope Hard to compact Content of large stones Too clayey	1.00 1.00 0.78 0.50
Haplustalfs-----	40	Very limited Slope Depth to bedrock Too clayey Content of large stones	1.00 1.00 1.00 1.00	Very limited Slope	1.00	Very limited Slope Too clayey Content of large stones	1.00 1.00 1.00

Table 18.--Sanitary facilities--Continued

Map symbol and soil name	Pct. of map unit	Trench sanitary landfill		Area sanitary landfill		Daily cover for landfill	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
813: Fughes-----	80	Very limited Too clayey Slope	1.00 1.00	Very limited Slope	1.00	Very limited Too clayey Slope	1.00 1.00
814: Leaps-----	50	Very limited Too clayey Slope	1.00 1.00	Very limited Slope	1.00	Very limited Too clayey Hard to compact Slope	1.00 1.00 1.00
Hofly-----	35	Very limited Too clayey Slope	1.00 1.00	Very limited Slope	1.00	Very limited Too clayey Slope	1.00 1.00
815: Behanco-----	45	Very limited Depth to bedrock Too sandy	1.00 1.00	Very limited Seepage Depth to bedrock	1.00 0.71	Very limited Too sandy Seepage Depth to bedrock Gravel content	1.00 1.00 0.71 0.29
Powderhorn family---	40	Very limited Depth to bedrock Too clayey	1.00 1.00	Not limited		Very limited Too clayey Hard to compact	1.00 1.00
816: Storm-----	85	Very limited Slope Content of large stones Too clayey	1.00 0.97 0.50	Very limited Slope	1.00	Very limited Slope Content of large stones Too clayey Gravel content	1.00 0.97 0.50 0.17
826: Ute-----	50	Very limited Depth to saturated zone Too clayey	1.00 0.50	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone Too clayey	1.00 0.50

Table 18.--Sanitary facilities--Continued

Map symbol and soil name	Pct. of map unit	Trench sanitary landfill		Area sanitary landfill		Daily cover for landfill	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
826: Frisco-----	40	Very limited Content of large stones Slope	1.00 0.84	Somewhat limited Slope	0.84	Very limited Content of large stones Slope	1.00 0.84
830: Dressel-----	55	Very limited Slope Content of large stones	1.00 0.99	Very limited Slope	1.00	Very limited Slope Content of large stones	1.00 0.99
Jersey-----	30	Very limited Slope Too clayey Content of large stones	1.00 1.00 1.00	Very limited Slope	1.00	Very limited Slope Too clayey Content of large stones	1.00 1.00 1.00
832: Storm-----	85	Somewhat limited Content of large stones Too clayey	0.97 0.50	Not limited		Somewhat limited Content of large stones Too clayey Gravel content	0.97 0.50 0.17
834: Haycamp-----	60	Very limited Slope Too clayey	1.00 1.00	Very limited Slope	1.00	Very limited Slope Too clayey Hard to compact	1.00 1.00 1.00
Jersey-----	25	Very limited Slope Too clayey Content of large stones	1.00 1.00 1.00	Very limited Slope	1.00	Very limited Slope Too clayey Content of large stones	1.00 1.00 1.00
835: Brumley-----	85	Not limited		Not limited		Not limited	
860: Granath-----	55	Somewhat limited Too clayey	0.50	Not limited		Somewhat limited Too clayey	0.50

Table 18.--Sanitary facilities--Continued

Map symbol and soil name	Pct. of map unit	Trench sanitary landfill		Area sanitary landfill		Daily cover for landfill	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
860: Nortez-----	30	Very limited Depth to bedrock Too clayey	1.00 0.50	Very limited Depth to bedrock	1.00	Very limited Depth to bedrock Hard to compact Too clayey	1.00 1.00 0.50
861: Morapos-----	80	Somewhat limited Too clayey	0.50	Not limited		Somewhat limited Too clayey	0.50
862: Granath-----	40	Somewhat limited Too clayey	0.50	Not limited		Somewhat limited Too clayey	0.50
Dolores-----	25	Very limited Too clayey Content of large stones	1.00 1.00	Not limited		Very limited Too clayey Hard to compact Content of large stones	1.00 1.00 1.00
Fivepine-----	20	Very limited Depth to bedrock Too clayey Content of large stones	1.00 1.00 0.32	Very limited Depth to bedrock	1.00	Very limited Depth to bedrock Too clayey Content of large stones	1.00 1.00 0.32
863: Granath-----	40	Somewhat limited Too clayey	0.50	Not limited		Somewhat limited Too clayey	0.50
Ormiston-----	25	Very limited Depth to bedrock Content of large stones Too clayey	1.00 1.00 0.50	Somewhat limited Depth to bedrock	0.88	Very limited Hard to compact Content of large stones Depth to bedrock Too clayey	1.00 1.00 0.88 0.50
Fivepine-----	20	Very limited Depth to bedrock Too clayey Content of large stones	1.00 1.00 0.32	Very limited Depth to bedrock	1.00	Very limited Depth to bedrock Too clayey Content of large stones	1.00 1.00 0.32

Table 18.--Sanitary facilities--Continued

Map symbol and soil name	Pct. of map unit	Trench sanitary landfill		Area sanitary landfill		Daily cover for landfill	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
890: Tamarron-----	45	Very limited Slope Depth to bedrock Content of large stones Too clayey	1.00 1.00 0.93 0.50	Very limited Slope Depth to bedrock	1.00 1.00	Very limited Depth to bedrock Slope Content of large stones Too clayey	1.00 1.00 0.93 0.50
Frisco-----	35	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope	1.00	Very limited Slope Content of large stones	1.00 1.00
891: Tamarron-----	45	Very limited Slope Depth to bedrock Content of large stones Too clayey	1.00 1.00 0.93 0.50	Very limited Slope Depth to bedrock	1.00 1.00	Very limited Depth to bedrock Slope Content of large stones Too clayey	1.00 1.00 0.93 0.50
Frisco-----	40	Very limited Slope Content of large stones	1.00 1.00	Very limited Slope	1.00	Very limited Slope Content of large stones	1.00 1.00
901: Granath-----	45	Somewhat limited Too clayey	0.50	Not limited		Somewhat limited Too clayey	0.50
Zoltay-----	25	Somewhat limited Too clayey	0.50	Not limited		Somewhat limited Too clayey	0.50
Nortez-----	20	Very limited Depth to bedrock Too clayey	1.00 0.50	Very limited Depth to bedrock	1.00	Very limited Depth to bedrock Hard to compact Too clayey	1.00 1.00 0.50
903: Anvik-----	85	Very limited Slope	1.00	Very limited Slope Seepage	1.00 1.00	Very limited Slope	1.00

Table 18.--Sanitary facilities--Continued

Map symbol and soil name	Pct. of map unit	Trench sanitary landfill		Area sanitary landfill		Daily cover for landfill	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
904: Beje-----	85	Very limited Depth to bedrock Slope Too clayey	1.00 0.96 0.50	Very limited Depth to bedrock Slope	1.00 0.96	Very limited Depth to bedrock Slope Too clayey	1.00 0.96 0.50
905: Cryaquolls-----	95	Very limited Flooding Depth to saturated zone Seepage	1.00 1.00 1.00	Very limited Flooding Depth to saturated zone Seepage	1.00 1.00 1.00	Very limited Depth to saturated zone Seepage	1.00 0.16
906: Archuleta-----	80	Very limited Depth to bedrock Slope Too clayey	1.00 1.00 0.50	Very limited Depth to bedrock Slope	1.00 1.00	Very limited Depth to bedrock Slope Too clayey	1.00 1.00 0.50
907: Archuleta-----	45	Very limited Depth to bedrock Slope Too clayey	1.00 1.00 0.50	Very limited Depth to bedrock Slope	1.00 1.00	Very limited Depth to bedrock Slope Too clayey	1.00 1.00 0.50
Sanchez-----	30	Very limited Depth to bedrock Slope Content of large stones	1.00 1.00 1.00	Very limited Depth to bedrock Slope	1.00 1.00	Very limited Depth to bedrock Slope Content of large stones	1.00 1.00 1.00
908: Adel-----	85	Very limited Slope Too clayey	1.00 0.50	Very limited Slope	1.00	Very limited Slope Too clayey	1.00 0.50
909: Adel-----	90	Very limited Slope Too clayey	1.00 0.50	Very limited Slope	1.00	Very limited Slope Too clayey	1.00 0.50

Table 18.--Sanitary facilities--Continued

Map symbol and soil name	Pct. of map unit	Trench sanitary landfill		Area sanitary landfill		Daily cover for landfill	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
917: Chris-----	85	Very limited Slope Content of large stones	1.00 0.73	Very limited Slope	1.00	Very limited Slope Content of large stones Gravel content	1.00 0.73 0.01
919: Clayburn-----	90	Not limited		Not limited		Not limited	
920: Clayburn-----	85	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
926: Ustolls-----	45	Very limited Slope Depth to bedrock Too clayey Content of large stones	1.00 1.00 1.00 1.00	Very limited Slope	1.00	Very limited Slope Too clayey Content of large stones	1.00 1.00 1.00
Rock outcrop-----	40	Not rated		Not rated		Not rated	
930: Furtlewis-----	45	Very limited Depth to bedrock Too clayey Slope	1.00 1.00 1.00	Very limited Depth to bedrock Slope	1.00 1.00	Very limited Depth to bedrock Too clayey Slope	1.00 1.00 1.00
Rock outcrop-----	35	Not rated		Not rated		Not rated	
934: Ceek-----	85	Very limited Too clayey Slope	1.00 1.00	Very limited Slope	1.00	Very limited Too clayey Slope	1.00 1.00
937: Herm-----	85	Very limited Slope Too clayey	1.00 0.50	Very limited Slope	1.00	Very limited Slope Too clayey	1.00 0.50

Table 18.--Sanitary facilities--Continued

Map symbol and soil name	Pct. of map unit	Trench sanitary landfill		Area sanitary landfill		Daily cover for landfill	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
939: Ohwiler-----	90	Somewhat limited Too clayey	0.50	Not limited		Somewhat limited Too clayey	0.50
940: Horsethief-----	85	Very limited Slope Content of large stones Too clayey	1.00 1.00 0.50	Very limited Slope Seepage	1.00 1.00	Very limited Slope Content of large stones Too clayey	1.00 1.00 0.50
942: Fivepine-----	50	Very limited Depth to bedrock Too clayey Content of large stones	1.00 1.00 0.06	Very limited Depth to bedrock	1.00	Very limited Depth to bedrock Too clayey Content of large stones	1.00 1.00 0.06
Pino-----	35	Very limited Depth to bedrock Too clayey	1.00 1.00	Very limited Depth to bedrock	1.00	Very limited Depth to bedrock Too clayey Hard to compact	1.00 1.00 1.00
945: Nizhoni-----	35	Very limited Depth to bedrock Seepage Slope	1.00 1.00 1.00	Very limited Depth to bedrock Slope	1.00 1.00	Very limited Depth to bedrock Slope Seepage	1.00 1.00 0.52
Arabrab-----	30	Very limited Depth to bedrock	1.00	Very limited Depth to bedrock	1.00	Very limited Depth to bedrock	1.00
Rock outcrop-----	30	Not rated		Not rated		Not rated	
950: Pescar-----	80	Very limited Flooding Depth to saturated zone Seepage Too sandy	1.00 1.00 1.00 1.00	Very limited Flooding Depth to saturated zone Seepage	1.00 1.00 1.00	Very limited Depth to saturated zone Too sandy Seepage Gravel content	1.00 1.00 1.00 0.96

Table 18.--Sanitary facilities--Continued

Map symbol and soil name	Pct. of map unit	Trench sanitary landfill		Area sanitary landfill		Daily cover for landfill	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
951: Endoaquolls-----	90	Very limited Flooding Depth to saturated zone Seepage Too sandy Content of large stones	1.00 1.00 1.00 1.00 0.26	Very limited Flooding Depth to saturated zone Seepage	1.00 1.00 1.00	Very limited Depth to saturated zone Too sandy Seepage Content of large stones	1.00 1.00 1.00 0.26
955: Umbarg-----	35	Very limited Depth to saturated zone Flooding	1.00 0.40	Very limited Depth to saturated zone Flooding	1.00 0.40	Not limited	
Winner-----	30	Very limited Depth to saturated zone Content of large stones Flooding	1.00 0.48 0.40	Very limited Depth to saturated zone Flooding	1.00 0.40	Very limited Depth to saturated zone Content of large stones	1.00 0.48
Tesajo-----	20	Very limited Depth to saturated zone Seepage Content of large stones Too sandy Flooding	1.00 1.00 1.00 0.50 0.40	Very limited Depth to saturated zone Seepage Flooding	1.00 1.00 0.40	Very limited Seepage Content of large stones Too sandy	1.00 1.00 0.50
956: Ormiston-----	50	Very limited Depth to bedrock Content of large stones Too clayey	1.00 1.00 0.50	Somewhat limited Depth to bedrock	0.88	Very limited Hard to compact Content of large stones Depth to bedrock Too clayey	1.00 1.00 0.88 0.50
Granath-----	35	Somewhat limited Too clayey	0.50	Not limited		Somewhat limited Too clayey	0.50

Table 18.--Sanitary facilities--Continued

Map symbol and soil name	Pct. of map unit	Trench sanitary landfill		Area sanitary landfill		Daily cover for landfill	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
958: Sheek-----	35	Very limited Slope Content of large stones Too clayey	1.00 1.00 0.50	Very limited Slope	1.00	Very limited Slope Content of large stones Too clayey	1.00 1.00 0.50
Archuleta-----	30	Very limited Slope Depth to bedrock Content of large stones Too clayey	1.00 1.00 0.93 0.50	Very limited Slope Depth to bedrock	1.00 1.00	Very limited Depth to bedrock Slope Content of large stones Too clayey	1.00 1.00 0.93 0.50
Rock outcrop-----	20	Not rated		Not rated		Not rated	
959: Granath-----	90	Somewhat limited Too clayey	0.50	Not limited		Somewhat limited Too clayey	0.50
965: Narraguinnep-----	55	Very limited Too clayey	1.00	Not limited		Very limited Too clayey	1.00
Dapoin-----	30	Somewhat limited Too clayey	0.50	Not limited		Somewhat limited Too clayey	0.50
966: Cryaquepts-----	85	Very limited Flooding Depth to saturated zone Depth to bedrock Content of large stones	1.00 1.00 1.00 0.25	Very limited Flooding Depth to saturated zone Depth to bedrock	1.00 1.00 1.00	Very limited Depth to bedrock Depth to saturated zone Content of large stones	1.00 1.00 0.25
967: Quazar-----	40	Very limited Slope Content of large stones Too clayey	1.00 0.88 0.50	Very limited Slope	1.00	Very limited Slope Content of large stones Gravel content Too clayey	1.00 0.88 0.63 0.50

Table 18.--Sanitary facilities--Continued

Map symbol and soil name	Pct. of map unit	Trench sanitary landfill		Area sanitary landfill		Daily cover for landfill	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
967: Cryaquolls-----	25	Very limited Flooding Depth to saturated zone Seepage	1.00 1.00 1.00	Very limited Flooding Depth to saturated zone Seepage	1.00 1.00 1.00	Very limited Depth to saturated zone Seepage	1.00 0.16
Cryohemists-----	20	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Flooding Depth to saturated zone Seepage	1.00 1.00 1.00	Very limited Depth to saturated zone	1.00
968: Nortez-----	50	Very limited Depth to bedrock Too clayey	1.00 0.50	Very limited Depth to bedrock	1.00	Very limited Depth to bedrock Hard to compact Too clayey	1.00 1.00 0.50
Granath-----	35	Somewhat limited Too clayey	0.50	Not limited		Somewhat limited Too clayey	0.50
969: Nortez-----	45	Very limited Depth to bedrock Too clayey	1.00 0.50	Very limited Depth to bedrock	1.00	Very limited Depth to bedrock Hard to compact Too clayey	1.00 1.00 0.50
Fivepine-----	40	Very limited Depth to bedrock Too clayey Content of large stones	1.00 1.00 0.06	Very limited Depth to bedrock	1.00	Very limited Depth to bedrock Too clayey Content of large stones	1.00 1.00 0.06
972: Pagoda-----	35	Very limited Slope Too clayey	1.00 0.50	Very limited Slope	1.00	Very limited Slope Too clayey	1.00 0.50
Coulterg-----	30	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00

Table 18.--Sanitary facilities--Continued

Map symbol and soil name	Pct. of map unit	Trench sanitary landfill		Area sanitary landfill		Daily cover for landfill	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
972: Wiggler-----	20	Very limited Slope Depth to bedrock	1.00 1.00	Very limited Slope Depth to bedrock	1.00 1.00	Very limited Depth to bedrock Slope Gravel content	1.00 1.00 0.20
989: Ryman-----	90	Somewhat limited Too clayey Slope	0.50 0.04	Somewhat limited Slope	0.04	Somewhat limited Too clayey Slope	0.50 0.04
990: Ryman, warm-----	85	Very limited Too clayey Slope	1.00 0.04	Somewhat limited Slope	0.04	Very limited Too clayey Slope	1.00 0.04
992: Gladlow-----	85	Somewhat limited Slope Too clayey	0.63 0.50	Somewhat limited Slope	0.63	Somewhat limited Slope Too clayey	0.63 0.50
996: Zoltay-----	85	Somewhat limited Too clayey Slope	0.50 0.04	Somewhat limited Slope	0.04	Somewhat limited Too clayey Slope	0.50 0.04
997: Zigzag-----	40	Very limited Slope Depth to bedrock	1.00 1.00	Very limited Slope	1.00	Very limited Depth to bedrock Slope	1.00 1.00
Bodot-----	25	Very limited Slope Depth to bedrock Too clayey	1.00 1.00 0.50	Very limited Slope Depth to bedrock	1.00 1.00	Very limited Depth to bedrock Slope Too clayey	1.00 1.00 0.50
Rock outcrop-----	25	Not rated		Not rated		Not rated	

Table 19.--Construction materials

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The ratings given for the thickest layer are for the thickest layer above and excluding the bottom layer. The numbers in the value columns range from 0.00 to 0.99. The greater the value, the greater the likelihood that the bottom layer or thickest layer of the soil is a source of sand or gravel. See text for further explanation of ratings in this table.)

Map symbol and soil name	Pct. of map unit	Potential source of gravel		Potential source of sand	
		Rating class	Value	Rating class	Value
1: Bradfield-----	45	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
Narraguinnep-----	40	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
2: Hesperus-----	85	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
10: Lillings-----	85	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
12: Shawa-----	80	Poor Thickest layer Bottom layer	 0.00 0.00	Poor Thickest layer Bottom layer	 0.00 0.00
13: Fughes-----	85	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
14: Dalmatian-----	35	Poor Bottom layer Thickest layer	 0.00 0.00	Fair Thickest layer Bottom layer	 0.00 0.02
Apmay-----	35	Fair Thickest layer Bottom layer	 0.33 0.62	Fair Thickest layer Bottom layer	 0.03 0.07
Schrader-----	15	Poor Bottom layer Thickest layer	 0.00 0.00	Fair Thickest layer Bottom layer	 0.00 0.01
15: Umbarg-----	80	Poor Thickest layer Bottom layer	 0.00 0.00	Poor Thickest layer Bottom layer	 0.00 0.00
16: Payter-----	85	Poor Bottom layer Thickest layer	 0.00 0.00	Fair Bottom layer Thickest layer	 0.02 0.02

Table 19.--Construction materials--Continued

Map symbol and soil name	Pct. of map unit	Potential source of gravel		Potential source of sand	
		Rating class	Value	Rating class	Value
17: Fluvaquents-----	55	Poor Thickest layer Bottom layer	 0.00 0.00	Fair Bottom layer Thickest layer	 0.00 0.31
Haplustolls-----	30	Poor Thickest layer Bottom layer	 0.00 0.00	Poor Thickest layer Bottom layer	 0.00 0.00
18: Endoaquolls-----	45	Poor Thickest layer Bottom layer	 0.00 0.00	Poor Thickest layer Bottom layer	 0.00 0.00
Ustifluvents-----	40	Poor Thickest layer Bottom layer	 0.00 0.00	Poor Thickest layer Bottom layer	 0.00 0.00
20: Mavreeso-----	75	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
51: Clayburn-----	55	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
Hourglass-----	35	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
52: Ohwiler-----	80	Poor Thickest layer Bottom layer	 0.00 0.00	Poor Thickest layer Bottom layer	 0.00 0.00
53: Cryaquolls-----	50	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Thickest layer Bottom layer	 0.00 0.00
Typic Cryaquents----	35	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
54: Quazar-----	90	Poor Thickest layer Bottom layer	 0.00 0.00	Poor Thickest layer Bottom layer	 0.00 0.00
56: Typic Cryaquents----	35	Poor Thickest layer Bottom layer	 0.00 0.00	Poor Thickest layer Bottom layer	 0.00 0.00
Cryaquolls-----	30	Poor Thickest layer Bottom layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00

Table 19.--Construction materials--Continued

Map symbol and soil name	Pct. of map unit	Potential source of gravel		Potential source of sand	
		Rating class	Value	Rating class	Value
56: Cryofibrists-----	25	Poor Content of organic matter Bottom layer Thickest layer	 0.00 0.00 0.00	Poor Content of organic matter Bottom layer Thickest layer	 0.00 0.00 0.00
57: Howardsville-----	80	Poor Thickest layer Bottom layer	 0.00 0.00	Poor Thickest layer Bottom layer	 0.00 0.00
58: Fughes-----	55	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
Herm-----	35	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
59: Fughes-----	45	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
Herm-----	35	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
60: Grimes-----	90	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
110: Sheek-----	45	Poor Thickest layer Bottom layer	 0.00 0.00	Poor Thickest layer Bottom layer	 0.00 0.00
Ormiston-----	35	Poor Thickest layer Bottom layer	 0.00 0.00	Poor Thickest layer Bottom layer	 0.00 0.00
111: Fardraw-----	80	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
113: Dolores-----	80	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
150: Silex-----	70	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
Rock outcrop-----	20	Not rated		Not rated	

Table 19.--Construction materials--Continued

Map symbol and soil name	Pct. of map unit	Potential source of gravel		Potential source of sand	
		Rating class	Value	Rating class	Value
151: Frisco-----	80	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
152: Frisco-----	80	Poor Thickest layer Bottom layer	 0.00 0.00	Poor Thickest layer Bottom layer	 0.00 0.00
153: Frisco-----	50	Poor Thickest layer Bottom layer	 0.00 0.00	Poor Thickest layer Bottom layer	 0.00 0.00
Horsethief-----	30	Poor Thickest layer Bottom layer	 0.00 0.00	Poor Thickest layer Bottom layer	 0.00 0.00
154: Frisco-----	60	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
Horsethief-----	25	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
155: Tuckerville-----	70	Poor Thickest layer Bottom layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
Rock outcrop-----	20	Not rated		Not rated	
156: Sponsor-----	60	Poor Thickest layer Bottom layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
Tuckerville-----	30	Poor Thickest layer Bottom layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
157: Sponsor-----	60	Poor Thickest layer Bottom layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
Tuckerville-----	30	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Thickest layer Bottom layer	 0.00 0.00
158: Sponsor-----	60	Poor Thickest layer Bottom layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
Tuckerville-----	30	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Thickest layer Bottom layer	 0.00 0.00

Table 19.--Construction materials--Continued

Map symbol and soil name	Pct. of map unit	Potential source of gravel		Potential source of sand	
		Rating class	Value	Rating class	Value
159: Tuckerville-----	80	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Thickest layer Bottom layer	 0.00 0.00
160: Anvik-----	40	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
Tuckerville-----	35	Poor Thickest layer Bottom layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
161: Needleton-----	85	Poor Thickest layer Bottom layer	 0.00 0.00	Poor Thickest layer Bottom layer	 0.00 0.00
162: Quazar-----	45	Fair Thickest layer Bottom layer	 0.00 0.29	Poor Thickest layer Bottom layer	 0.00 0.00
Varden-----	40	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Thickest layer Bottom layer	 0.00 0.00
163: Clayburn-----	50	Poor Thickest layer Bottom layer	 0.00 0.00	Poor Thickest layer Bottom layer	 0.00 0.00
Hourglass-----	35	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
164: Hourglass-----	50	Poor Thickest layer Bottom layer	 0.00 0.00	Poor Thickest layer Bottom layer	 0.00 0.00
Bucklon-----	25	Poor Thickest layer Bottom layer	 0.00 0.00	Poor Thickest layer Bottom layer	 0.00 0.00
Wander-----	15	Poor Thickest layer Bottom layer	 0.00 0.00	Poor Thickest layer Bottom layer	 0.00 0.00
165: Pinacol-----	85	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
166: Pinacol-----	80	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00

Table 19.--Construction materials--Continued

Map symbol and soil name	Pct. of map unit	Potential source of gravel		Potential source of sand	
		Rating class	Value	Rating class	Value
250: Snowdon-----	55	Poor Thickest layer Bottom layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
Rock outcrop-----	25	Not rated		Not rated	
251: Rock outcrop-----	60	Not rated		Not rated	
Snowdon-----	25	Poor Thickest layer Bottom layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
254: Typic Cryorthents---	50	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
Rubble land-----	30	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
330: Needleton-----	85	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
331: Needleton-----	80	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
332: Horsethief-----	55	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
Needleton-----	35	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
333: Henson, south aspect	85	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Thickest layer Bottom layer	 0.00 0.00
334: Henson, south aspect	80	Poor Thickest layer Bottom layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
335: Whitecross-----	55	Poor Thickest layer Bottom layer	 0.00 0.00	Poor Thickest layer Bottom layer	 0.00 0.00
Rock outcrop-----	30	Not rated		Not rated	

Table 19.--Construction materials--Continued

Map symbol and soil name	Pct. of map unit	Potential source of gravel		Potential source of sand	
		Rating class	Value	Rating class	Value
336: Whitecross, south aspect-----	50	Poor Thickest layer Bottom layer	0.00 0.00	Poor Thickest layer Bottom layer	0.00 0.00
Rock outcrop-----	25	Not rated		Not rated	
337: Whitecross-----	60	Poor Thickest layer Bottom layer	0.00 0.00	Poor Thickest layer Bottom layer	0.00 0.00
Rock outcrop-----	25	Not rated		Not rated	
338: Henson-----	80	Poor Thickest layer Bottom layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
339: Henson-----	80	Poor Thickest layer Bottom layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
340: Moran-----	80	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
341: Moran-----	80	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
342: Telluride-----	60	Poor Thickest layer Bottom layer	0.00 0.00	Poor Thickest layer Bottom layer	0.00 0.00
Rock outcrop-----	20	Not rated		Not rated	
343: Telluride-----	60	Poor Thickest layer Bottom layer	0.00 0.00	Poor Thickest layer Bottom layer	0.00 0.00
Rock outcrop-----	25	Not rated		Not rated	
345: Papaspila-----	85	Poor Thickest layer Bottom layer	0.00 0.00	Poor Thickest layer Bottom layer	0.00 0.00
350: Flygare-----	45	Poor Thickest layer Bottom layer	0.00 0.00	Poor Thickest layer Bottom layer	0.00 0.00

Table 19.--Construction materials--Continued

Map symbol and soil name	Pct. of map unit	Potential source of gravel		Potential source of sand	
		Rating class	Value	Rating class	Value
350: Foidel-----	40	Poor Thickest layer Bottom layer	0.00 0.00	Poor Thickest layer Bottom layer	0.00 0.00
355: Flygare-----	45	Poor Thickest layer Bottom layer	0.00 0.00	Poor Thickest layer Bottom layer	0.00 0.00
Foidel-----	40	Poor Thickest layer Bottom layer	0.00 0.00	Poor Thickest layer Bottom layer	0.00 0.00
360: Blacksnag-----	45	Poor Bottom layer Thickest layer	0.00 0.00	Poor Thickest layer Bottom layer	0.00 0.00
Peeler-----	40	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
361: Blacksnag-----	45	Poor Thickest layer Bottom layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Peeler-----	40	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
374: Mavreeso-----	35	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Valto-----	30	Poor Thickest layer Bottom layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Rock outcrop-----	20	Not rated		Not rated	
375: Needleton-----	55	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Snowdon-----	30	Poor Thickest layer Bottom layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
376: Needleton-----	80	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
378: Needleton-----	65	Poor Thickest layer Bottom layer	0.00 0.00	Poor Thickest layer Bottom layer	0.00 0.00

Table 19.--Construction materials--Continued

Map symbol and soil name	Pct. of map unit	Potential source of gravel		Potential source of sand	
		Rating class	Value	Rating class	Value
378: Haviland-----	25	Poor Thickest layer Bottom layer	 0.00 0.00	Poor Thickest layer Bottom layer	 0.00 0.00
380: Snowdon-----	50	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Thickest layer Bottom layer	 0.00 0.00
Rock outcrop-----	35	Not rated		Not rated	
381: Needleton-----	45	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
Snowdon-----	30	Poor Thickest layer Bottom layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
Rock outcrop-----	15	Not rated		Not rated	
382: Needleton-----	50	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
Snowdon-----	30	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Thickest layer Bottom layer	 0.00 0.00
383: Haviland-----	50	Poor Thickest layer Bottom layer	 0.00 0.00	Poor Thickest layer Bottom layer	 0.00 0.00
Needleton-----	35	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
386: Needleton-----	70	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
387: Frisco-----	50	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
Quazar-----	40	Fair Thickest layer Bottom layer	 0.00 0.29	Poor Bottom layer Thickest layer	 0.00 0.00
388: Frisco-----	50	Poor Thickest layer Bottom layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00

Table 19.--Construction materials--Continued

Map symbol and soil name	Pct. of map unit	Potential source of gravel		Potential source of sand	
		Rating class	Value	Rating class	Value
388: Quazar-----	45	Fair Thickest layer Bottom layer	 0.00 0.29	Poor Bottom layer Thickest layer	 0.00 0.00
389: Seitz-----	85	Poor Thickest layer Bottom layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
390: Clayburn-----	40	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
Heisspitz-----	30	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
391: Runlett-----	50	Poor Thickest layer Bottom layer	 0.00 0.00	Poor Thickest layer Bottom layer	 0.00 0.00
Sessions-----	30	Poor Thickest layer Bottom layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
392: Runlett-----	30	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
Needleton-----	30	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
Sessions-----	20	Poor Thickest layer Bottom layer	 0.00 0.00	Poor Thickest layer Bottom layer	 0.00 0.00
393: Heisspitz-----	50	Poor Thickest layer Bottom layer	 0.00 0.00	Poor Thickest layer Bottom layer	 0.00 0.00
Sessions-----	25	Poor Thickest layer Bottom layer	 0.00 0.00	Poor Thickest layer Bottom layer	 0.00 0.00
Rock outcrop-----	20	Not rated		Not rated	
394: Clayburn-----	55	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
Heisspitz-----	30	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00

Table 19.--Construction materials--Continued

Map symbol and soil name	Pct. of map unit	Potential source of gravel		Potential source of sand	
		Rating class	Value	Rating class	Value
395: Scout-----	85	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
396: Scout-----	85	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
399: Kite-----	40	Poor Thickest layer Bottom layer	 0.00 0.00	Fair Thickest layer Bottom layer	 0.00 0.04
Rock outcrop-----	35	Not rated		Not rated	
450: Lostlake-----	45	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Thickest layer Bottom layer	 0.00 0.00
Rock outcrop-----	35	Not rated		Not rated	
452: Dystrocryepts-----	55	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
Rock outcrop-----	35	Not rated		Not rated	
453: Sig-----	40	Fair Thickest layer Bottom layer	 0.00 0.12	Poor Bottom layer Thickest layer	 0.00 0.00
Rock outcrop-----	30	Not rated		Not rated	
Snowdon-----	20	Poor Thickest layer Bottom layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
454: Snowdon-----	35	Poor Thickest layer Bottom layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
Sig-----	30	Fair Thickest layer Bottom layer	 0.00 0.12	Poor Bottom layer Thickest layer	 0.00 0.00
Rock outcrop-----	25	Not rated		Not rated	
493: Badland-----	90	Not rated		Not rated	
494: Pits, gravel-----	100	Not rated		Not rated	

Table 19.--Construction materials--Continued

Map symbol and soil name	Pct. of map unit	Potential source of gravel		Potential source of sand	
		Rating class	Value	Rating class	Value
495: Riverwash-----	85	Fair Thickest layer Bottom layer	 0.00 0.25	Fair Bottom layer Thickest layer	 0.00 0.63
496: Rock outcrop-----	70	Not rated		Not rated	
497: Rubble land-----	80	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
498: Slickens-----	80	Poor Bottom layer Thickest layer	 0.00 0.00	Fair Bottom layer Thickest layer	 0.23 0.23
499: Water-----	100	Not rated		Not rated	
500: Dolores-----	50	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
Fivepine-----	35	Poor Thickest layer Bottom layer	 0.00 0.00	Poor Thickest layer Bottom layer	 0.00 0.00
501: Fivepine-----	60	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
Nortez-----	25	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
503: Ormiston-----	50	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
Fivepine-----	35	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
504: Jemco-----	40	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
Detra-----	30	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
Beje-----	20	Poor Thickest layer Bottom layer	 0.00 0.00	Poor Thickest layer Bottom layer	 0.00 0.00

Table 19.--Construction materials--Continued

Map symbol and soil name	Pct. of map unit	Potential source of gravel		Potential source of sand	
		Rating class	Value	Rating class	Value
505: Moento-----	80	Poor Bottom layer Thickest layer	0.00 0.00	Fair Thickest layer Bottom layer	0.00 0.01
506: Moento-----	35	Poor Bottom layer Thickest layer	0.00 0.00	Fair Thickest layer Bottom layer	0.00 0.01
Detra-----	30	Poor Thickest layer Bottom layer	0.00 0.00	Poor Thickest layer Bottom layer	0.00 0.00
Jemco-----	20	Poor Thickest layer Bottom layer	0.00 0.00	Poor Thickest layer Bottom layer	0.00 0.00
508: Herm-----	50	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Pagoda-----	35	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
509: Burnson, dry-----	80	Poor Thickest layer Bottom layer	0.00 0.00	Poor Thickest layer Bottom layer	0.00 0.00
510: Jemco-----	60	Poor Thickest layer Bottom layer	0.00 0.00	Poor Thickest layer Bottom layer	0.00 0.00
Moento-----	25	Poor Bottom layer Thickest layer	0.00 0.00	Fair Thickest layer Bottom layer	0.00 0.01
511: Granath-----	50	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Fughes-----	35	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
512: Wetherill-----	85	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
513: Maudrey-----	50	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00

Table 19.--Construction materials--Continued

Map symbol and soil name	Pct. of map unit	Potential source of gravel		Potential source of sand	
		Rating class	Value	Rating class	Value
513: Tombac-----	35	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
525: Arabrab-----	85	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
526: Lonecone-----	80	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
527: Ormiston-----	50	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
Beje-----	35	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
552: Burnson-----	80	Poor Thickest layer Bottom layer	 0.00 0.00	Poor Thickest layer Bottom layer	 0.00 0.00
553: Burnson-----	50	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
Herm-----	30	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
571: Mancos-----	40	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
Skisams-----	35	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
Skutum-----	20	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
572: Sudduth-----	85	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
600: Valto-----	50	Poor Thickest layer Bottom layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00

Table 19.--Construction materials--Continued

Map symbol and soil name	Pct. of map unit	Potential source of gravel		Potential source of sand	
		Rating class	Value	Rating class	Value
600: Rock outcrop-----	35	Not rated		Not rated	
601: Weminuche-----	85	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
602: Weminuche-----	85	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
603: Weminuche-----	55	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Anvik-----	25	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
605: Nordicol-----	80	Poor Bottom layer Thickest layer	0.00 0.00	Poor Thickest layer Bottom layer	0.00 0.00
606: Snowdon-----	50	Poor Thickest layer Bottom layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Needleton-----	35	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
607: Graysill-----	45	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Scotch-----	35	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
608: Scotch-----	45	Poor Thickest layer Bottom layer	0.00 0.00	Poor Thickest layer Bottom layer	0.00 0.00
Graysill-----	35	Poor Thickest layer Bottom layer	0.00 0.00	Poor Thickest layer Bottom layer	0.00 0.00
609: Hourglass-----	50	Poor Thickest layer Bottom layer	0.00 0.00	Poor Thickest layer Bottom layer	0.00 0.00

Table 19.--Construction materials--Continued

Map symbol and soil name	Pct. of map unit	Potential source of gravel		Potential source of sand	
		Rating class	Value	Rating class	Value
609: Wander-----	35	Poor Thickest layer Bottom layer	0.00 0.00	Poor Thickest layer Bottom layer	0.00 0.00
610: Wander-----	45	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Hotter-----	30	Poor Bottom layer Thickest layer	0.00 0.00	Poor Thickest layer Bottom layer	0.00 0.00
Hourglass-----	15	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
611: Goldbug-----	85	Poor Bottom layer Thickest layer	0.00 0.00	Fair Bottom layer Thickest layer	0.00 0.02
612: Haviland-----	50	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Graysill-----	35	Poor Thickest layer Bottom layer	0.00 0.00	Poor Thickest layer Bottom layer	0.00 0.00
615: Haviland-----	75	Poor Thickest layer Bottom layer	0.00 0.00	Poor Thickest layer Bottom layer	0.00 0.00
616: Furtlewis-----	85	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
617: Shawa-----	85	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
618: Nordicol-----	50	Poor Thickest layer Bottom layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Valto-----	35	Poor Thickest layer Bottom layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
619: Nordicol-----	80	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00

Table 19.--Construction materials--Continued

Map symbol and soil name	Pct. of map unit	Potential source of gravel		Potential source of sand	
		Rating class	Value	Rating class	Value
620: Caviness-----	90	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
621: Granturk-----	85	Fair Thickest layer Bottom layer	0.00 0.12	Fair Thickest layer Bottom layer	0.00 0.03
622: Granturk-----	60	Fair Thickest layer Bottom layer	0.00 0.12	Fair Thickest layer Bottom layer	0.00 0.03
Rock outcrop-----	30	Not rated		Not rated	
623: Chris-----	50	Poor Bottom layer Thickest layer	0.00 0.00	Poor Thickest layer Bottom layer	0.00 0.00
Nordicol-----	40	Poor Bottom layer Thickest layer	0.00 0.00	Poor Thickest layer Bottom layer	0.00 0.00
699: Haplocryolls-----	40	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Rubble land-----	40	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
700: Bradfield-----	90	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
703: Narraguinnep-----	80	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
704: Gladlow-----	30	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Rock outcrop-----	30	Not rated		Not rated	
Ruko-----	20	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
705: Helmet-----	80	Poor Thickest layer Bottom layer	0.00 0.00	Poor Thickest layer Bottom layer	0.00 0.00

Table 19.--Construction materials--Continued

Map symbol and soil name	Pct. of map unit	Potential source of gravel		Potential source of sand	
		Rating class	Value	Rating class	Value
706: Narraguinnep-----	85	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
707: Teedown-----	50	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
Nordicol-----	35	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
708: Helmet-----	80	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
709: Teedown-----	85	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
710: Sili-----	50	Poor Thickest layer Bottom layer	 0.00 0.00	Poor Thickest layer Bottom layer	 0.00 0.00
Zigzag-----	30	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
711: Sili-----	85	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
714: Helmet-----	80	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
718: Narraguinnep-----	50	Poor Thickest layer Bottom layer	 0.00 0.00	Poor Thickest layer Bottom layer	 0.00 0.00
Gladlow-----	40	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
720: Zigzag-----	45	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
Rock outcrop-----	35	Not rated		Not rated	

Table 19.--Construction materials--Continued

Map symbol and soil name	Pct. of map unit	Potential source of gravel		Potential source of sand	
		Rating class	Value	Rating class	Value
723: Zigzag-----	50	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
Rock outcrop-----	40	Not rated		Not rated	
725: Shawa-----	85	Poor Thickest layer Bottom layer	 0.00 0.00	Poor Thickest layer Bottom layer	 0.00 0.00
727: Teedown-----	50	Poor Thickest layer Bottom layer	 0.00 0.00	Poor Thickest layer Bottom layer	 0.00 0.00
Nordicol-----	35	Poor Thickest layer Bottom layer	 0.00 0.00	Poor Thickest layer Bottom layer	 0.00 0.00
730: Baird Hollow-----	35	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
Nordicol-----	30	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Thickest layer Bottom layer	 0.00 0.00
Ryman-----	25	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
731: Ryman-----	60	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
Adel-----	30	Poor Thickest layer Bottom layer	 0.00 0.00	Poor Thickest layer Bottom layer	 0.00 0.00
732: Adel-----	50	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
Quazar-----	40	Fair Thickest layer Bottom layer	 0.00 0.29	Poor Bottom layer Thickest layer	 0.00 0.00
733: Adel-----	70	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
Bucklon-----	20	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00

Table 19.--Construction materials--Continued

Map symbol and soil name	Pct. of map unit	Potential source of gravel		Potential source of sand	
		Rating class	Value	Rating class	Value
734: Ryman-----	60	Poor Thickest layer Bottom layer	 0.00 0.00	Poor Thickest layer Bottom layer	 0.00 0.00
Clayburn-----	30	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
740: Cowntown-----	50	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
Scout-----	30	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
741: Cowntown-----	45	Poor Thickest layer Bottom layer	 0.00 0.00	Poor Thickest layer Bottom layer	 0.00 0.00
Scout-----	35	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
750: Archuleta-----	50	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
Sheek-----	35	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
801: Fughes-----	50	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
Sheek-----	35	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
802: Argiustolls-----	30	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
Haplustalfs-----	30	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
Rock outcrop-----	25	Not rated		Not rated	
804: Wauquie-----	40	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00

Table 19.--Construction materials--Continued

Map symbol and soil name	Pct. of map unit	Potential source of gravel		Potential source of sand	
		Rating class	Value	Rating class	Value
804: Dolcan-----	25	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
Rock outcrop-----	20	Not rated		Not rated	
805: Shawa-----	50	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
Fughes-----	40	Poor Thickest layer Bottom layer	 0.00 0.00	Poor Thickest layer Bottom layer	 0.00 0.00
806: Shawa-----	45	Poor Thickest layer Bottom layer	 0.00 0.00	Poor Thickest layer Bottom layer	 0.00 0.00
Fughes-----	35	Poor Thickest layer Bottom layer	 0.00 0.00	Poor Thickest layer Bottom layer	 0.00 0.00
809: Argiustolls-----	45	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
Haplustalfs-----	40	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
813: Fughes-----	80	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
814: Leaps-----	50	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
Hofly-----	35	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
815: Behanco-----	45	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
Powderhorn family---	40	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
816: Storm-----	85	Fair Thickest layer Bottom layer	 0.01 0.43	Poor Bottom layer Thickest layer	 0.00 0.00

Table 19.--Construction materials--Continued

Map symbol and soil name	Pct. of map unit	Potential source of gravel		Potential source of sand	
		Rating class	Value	Rating class	Value
826: Ute-----	50	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Frisco-----	40	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
830: Dressel-----	55	Poor Thickest layer Bottom layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Jersey-----	30	Poor Thickest layer Bottom layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
832: Storm-----	85	Fair Thickest layer Bottom layer	0.01 0.43	Poor Bottom layer Thickest layer	0.00 0.00
834: Haycamp-----	60	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Jersey-----	25	Poor Thickest layer Bottom layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
835: Brumley-----	85	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
860: Granath-----	55	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Nortez-----	30	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
861: Morapos-----	80	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
862: Granath-----	40	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Dolores-----	25	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00

Table 19.--Construction materials--Continued

Map symbol and soil name	Pct. of map unit	Potential source of gravel		Potential source of sand	
		Rating class	Value	Rating class	Value
862: Fivepine-----	20	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
863: Granath-----	40	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
Ormiston-----	25	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
Fivepine-----	20	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
890: Tamarron-----	45	Poor Thickest layer Bottom layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
Frisco-----	35	Poor Thickest layer Bottom layer	 0.00 0.00	Poor Thickest layer Bottom layer	 0.00 0.00
891: Tamarron-----	45	Poor Thickest layer Bottom layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
Frisco-----	40	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
901: Granath-----	45	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
Zoltay-----	25	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
Nortez-----	20	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
903: Anvik-----	85	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
904: Beje-----	85	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00

Table 19.--Construction materials--Continued

Map symbol and soil name	Pct. of map unit	Potential source of gravel		Potential source of sand	
		Rating class	Value	Rating class	Value
905: Cryaquolls-----	95	Poor Thickest layer Bottom layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
906: Archuleta-----	80	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
907: Archuleta-----	45	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
Sanchez-----	30	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
908: Adel-----	85	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
909: Adel-----	90	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
917: Chris-----	85	Poor Thickest layer Bottom layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
919: Clayburn-----	90	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
920: Clayburn-----	85	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
926: Ustolls-----	45	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
Rock outcrop-----	40	Not rated		Not rated	
930: Fortlewis-----	45	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
Rock outcrop-----	35	Not rated		Not rated	

Table 19.--Construction materials--Continued

Map symbol and soil name	Pct. of map unit	Potential source of gravel		Potential source of sand	
		Rating class	Value	Rating class	Value
934: Ceek-----	85	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
937: Herm-----	85	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
939: Ohwiler-----	90	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
940: Horsethief-----	85	Poor Thickest layer Bottom layer	 0.00 0.00	Poor Thickest layer Bottom layer	 0.00 0.00
942: Fivepine-----	50	Poor Thickest layer Bottom layer	 0.00 0.00	Poor Thickest layer Bottom layer	 0.00 0.00
Pino-----	35	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
945: Nizhoni-----	35	Poor Bottom layer Thickest layer	 0.00 0.00	Fair Thickest layer Bottom layer	 0.00 0.03
Arabrab-----	30	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
Rock outcrop-----	30	Not rated		Not rated	
950: Pescar-----	80	Fair Thickest layer Bottom layer	 0.00 0.25	Fair Thickest layer Bottom layer	 0.00 0.82
951: Endoaquolls-----	90	Poor Thickest layer Bottom layer	 0.00 0.00	Poor Thickest layer Bottom layer	 0.00 0.00
955: Umbarg-----	35	Fair Thickest layer Bottom layer	 0.00 0.06	Poor Bottom layer Thickest layer	 0.00 0.00
Winner-----	30	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00

Table 19.--Construction materials--Continued

Map symbol and soil name	Pct. of map unit	Potential source of gravel		Potential source of sand	
		Rating class	Value	Rating class	Value
955: Tesajo-----	20	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
956: Ormiston-----	50	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Granath-----	35	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
958: Sheek-----	35	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Archuleta-----	30	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Rock outcrop-----	20	Not rated		Not rated	
959: Granath-----	90	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
965: Narraguinnep-----	55	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Dapoin-----	30	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
966: Cryaquepts-----	85	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
967: Quazar-----	40	Fair Thickest layer Bottom layer	0.00 0.29	Poor Bottom layer Thickest layer	0.00 0.00
Cryaquolls-----	25	Poor Thickest layer Bottom layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Cryohemists-----	20	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
968: Nortez-----	50	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00

Table 19.--Construction materials--Continued

Map symbol and soil name	Pct. of map unit	Potential source of gravel		Potential source of sand	
		Rating class	Value	Rating class	Value
968: Granath-----	35	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
969: Nortez-----	45	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Fivepine-----	40	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
972: Pagoda-----	35	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Coulterg-----	30	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Wiggler-----	20	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
989: Ryman-----	90	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
990: Ryman, warm-----	85	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
992: Gladlow-----	85	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
996: Zoltay-----	85	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
997: Zigzag-----	40	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Bodot-----	25	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Rock outcrop-----	25	Not rated		Not rated	

Table 20.--Construction materials

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The numbers in the value columns range from 0.00 to 0.99. The smaller the value, the greater the limitation. See text for further explanation of ratings in this table.)

Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
1: Bradfield-----	45	Poor Too clayey Low content of organic matter	0.00 0.12	Poor Low strength Shrink-swell	0.00 0.12	Poor Too clayey	0.00
Narraguinnep-----	40	Poor Too clayey Low content of organic matter	0.00 0.88	Poor Low strength Shrink-swell	0.00 0.40	Poor Too clayey	0.00
2: Hesperus-----	85	Fair Too clayey	0.98	Poor Low strength	0.00	Fair Too clayey	0.86
10: Lillings-----	85	Poor Too alkaline Low content of organic matter Sodium content Salinity Water erosion	0.00 0.12 0.60 0.88 0.90	Poor Low strength	0.00	Poor Salinity Sodium content	0.00 0.60
12: Shawa-----	80	Fair Low content of organic matter	0.88	Poor Low strength	0.00	Fair Hard to reclaim	0.02
13: Fughes-----	85	Fair Too clayey Low content of organic matter	0.12 0.12	Poor Low strength Shrink-swell	0.00 0.34	Fair Too clayey	0.09
14: Dalmatian-----	35	Good		Poor Low strength	0.00	Fair Hard to reclaim	0.88

Table 20.--Construction materials--Continued

Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
14: Apmay-----	35	Fair Low content of organic matter Water erosion Droughty	0.12 0.90 0.99	Poor Low strength Depth to saturated zone	0.00 0.53	Poor Hard to reclaim Rock fragments Depth to saturated zone	0.00 0.00 0.53
Schrader-----	15	Fair Low content of organic matter	0.88	Poor Low strength Depth to saturated zone	0.00 0.14	Fair Depth to saturated zone	0.14
15: Umbarg-----	80	Fair Low content of organic matter	0.88	Poor Low strength	0.00	Good	
16: Payter-----	85	Good		Poor Low strength	0.00	Fair Slope	0.96
17: Fluvaquents-----	55	Fair Low content of organic matter Droughty Stone content	0.12 0.54 0.68	Poor Low strength Depth to saturated zone Stone content	0.00 0.14 0.76	Poor Rock fragments Hard to reclaim Depth to saturated zone	0.00 0.00 0.14
Haplustolls-----	30	Poor Too sandy Low content of organic matter Droughty	0.00 0.12 0.37	Poor Low strength Cobble content	0.00 0.99	Poor Rock fragments Hard to reclaim Too sandy	0.00 0.00 0.00
18: Endoaquolls-----	45	Poor Too sandy Low content of organic matter Droughty Cobble content	0.00 0.12 0.53 0.88	Poor Depth to saturated zone Low strength Cobble content	0.00 0.00 0.98	Poor Too sandy Depth to saturated zone Hard to reclaim Rock fragments	0.00 0.00 0.00 0.00

Table 20.--Construction materials--Continued

Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
18: Ustifluvents-----	40	Fair Low content of organic matter Droughty Stone content Cobble content	0.12 0.81 0.88 0.98	Poor Low strength Cobble content	0.00 0.99	Poor Hard to reclaim	0.00
20: Mavreeso-----	75	Fair Low content of organic matter Water erosion	0.12 0.99	Poor Low strength Slope	0.00 0.82	Poor Slope	0.00
51: Clayburn-----	55	Good		Poor Low strength	0.00	Poor Slope Rock fragments	0.00 0.97
Hourglass-----	35	Fair Low content of organic matter Stone content	0.12 0.18	Poor Low strength Stone content	0.00 0.98	Poor Slope Hard to reclaim Rock fragments	0.00 0.02 0.28
52: Ohwiler-----	80	Good		Poor Low strength Slope	0.00 0.32	Poor Slope	0.00
53: Cryaquolls-----	50	Fair Low content of organic matter Too acid	0.50 0.92	Poor Low strength Depth to saturated zone Cobble content	0.00 0.00 0.99	Poor Rock fragments Depth to saturated zone Hard to reclaim	0.00 0.00 0.12
Typic Cryaquents----	35	Fair Stone content Low content of organic matter Droughty Too acid Water erosion	0.14 0.50 0.68 0.84 0.99	Poor Low strength Depth to saturated zone Stone content	0.00 0.00 0.35	Poor Rock fragments Depth to saturated zone Hard to reclaim	0.00 0.00 0.12

Table 20.--Construction materials--Continued

Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
54: Quazar-----	90	Fair Droughty Cobble content Low content of organic matter Stone content	 0.04 0.10 0.12 0.39	Poor Low strength Cobble content Stone content	 0.00 0.00 0.34	Poor Rock fragments Hard to reclaim Slope	 0.00 0.00 0.84
56: Typic Cryaquents----	35	Fair Stone content Low content of organic matter Too acid Water erosion	 0.10 0.50 0.84 0.99	Poor Low strength Depth to saturated zone Stone content No cobble limitation	 0.00 0.00 0.26 0.99	Poor Rock fragments Depth to saturated zone Hard to reclaim	 0.00 0.00 0.12
Cryaquolls-----	30	Fair Low content of organic matter Droughty Too acid	 0.50 0.90 0.92	Poor Low strength Depth to saturated zone Cobble content	 0.00 0.00 0.99	Poor Rock fragments Depth to saturated zone Hard to reclaim	 0.00 0.00 0.12
Cryofibrists-----	25	Fair Too acid	 0.84	Poor Low strength Depth to saturated zone	 0.00 0.14	Poor Content of organic matter Depth to saturated zone	 0.00 0.14
57: Howardsville-----	80	Poor Droughty Stone content Cobble content Low content of organic matter Too sandy	 0.00 0.02 0.05 0.12 0.38	Poor Low strength Cobble content Stone content	 0.00 0.00 0.05	Poor Hard to reclaim Rock fragments Too sandy	 0.00 0.00 0.38

Table 20.--Construction materials--Continued

Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
58: Fughes-----	55	Poor Too clayey Low content of organic matter	0.00 0.88	Poor Low strength Shrink-swell	0.00 0.62	Poor Too clayey Slope Hard to reclaim	0.00 0.00 0.12
Herm-----	35	Fair Too clayey Low content of organic matter	0.01 0.88	Poor Low strength Shrink-swell	0.00 0.36	Poor Slope Too clayey	0.00 0.00
59: Fughes-----	45	Good		Poor Slope Low strength Shrink-swell Stone content	0.00 0.00 0.42 0.86	Poor Slope Hard to reclaim Rock fragments	0.00 0.12 0.28
Herm-----	35	Fair Too clayey Low content of organic matter Stone content	0.01 0.88 0.97	Poor Slope Low strength Shrink-swell Stone content	0.00 0.00 0.36 0.79	Poor Slope Too clayey	0.00 0.00
60: Grimes-----	90	Poor Too sandy Droughty Low content of organic matter Stone content Cobble content	0.00 0.00 0.12 0.31 0.55	Poor Low strength Cobble content Stone content	0.00 0.00 0.39	Poor Hard to reclaim Rock fragments Too sandy	0.00 0.00 0.00
110: Sheek-----	45	Fair Low content of organic matter Cobble content Too clayey	0.12 0.76 0.98	Poor Low strength Cobble content Slope	0.00 0.04 0.82	Poor Hard to reclaim Slope Rock fragments Too clayey	0.00 0.00 0.00 0.57

Table 20.--Construction materials--Continued

Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
110: Ormiston-----	35	Poor Stone content Too clayey Droughty Low content of organic matter Carbonate content	 0.00 0.01 0.86 0.88 0.97	Poor Low strength Stone content Depth to bedrock Cobble content Shrink-swell	 0.00 0.00 0.12 0.56 0.87	Poor Rock fragments Too clayey Hard to reclaim	 0.00 0.00 0.05
111: Fardraw-----	80	Poor Too clayey Stone content Cobble content Low content of organic matter Droughty	 0.00 0.00 0.82 0.88 0.98	Poor Low strength Stone content Cobble content Shrink-swell	 0.00 0.08 0.28 0.89	Poor Hard to reclaim Rock fragments Too clayey Slope	 0.00 0.00 0.00 0.96
113: Dolores-----	80	Poor Stone content Low content of organic matter Too clayey Droughty Cobble content Too acid	 0.00 0.12 0.12 0.52 0.82 0.84	Poor Slope Stone content Low strength Cobble content	 0.00 0.00 0.00 0.07	Poor Slope Rock fragments Hard to reclaim Too clayey	 0.00 0.00 0.00 0.09
150: Silex-----	70	Poor Depth to bedrock Droughty Low content of organic matter Too acid Water erosion	 0.00 0.00 0.12 0.50 0.99	Poor Low strength Depth to bedrock	 0.00 0.00	Poor Depth to bedrock Slope Rock fragments Too acid	 0.00 0.00 0.88 0.88
Rock outcrop-----	20	Not rated		Not rated		Not rated	

Table 20.--Construction materials--Continued

Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
151: Frisco-----	80	Poor Stone content Low content of organic matter Too acid Cobble content Water erosion	 0.00 0.12 0.84 0.96 0.99	Poor Low strength Stone content Cobble content Slope	 0.00 0.00 0.33 0.82	Poor Hard to reclaim Slope Rock fragments	 0.00 0.00 0.00
152: Frisco-----	80	Poor Stone content Low content of organic matter Too acid Cobble content Water erosion	 0.00 0.12 0.84 0.96 0.99	Poor Slope Low strength Stone content Cobble content	 0.00 0.00 0.00 0.33	Poor Rock fragments Hard to reclaim Slope	 0.00 0.00 0.00
153: Frisco-----	50	Poor Stone content Low content of organic matter Too acid Cobble content Water erosion	 0.00 0.12 0.84 0.96 0.99	Poor Low strength Stone content Cobble content Slope	 0.00 0.00 0.33 0.50	Poor Rock fragments Slope Hard to reclaim	 0.00 0.00 0.00
Horsethief-----	30	Poor Stone content Low content of organic matter Too acid	 0.00 0.12 0.74	Poor Low strength Stone content Slope	 0.00 0.45 0.50	Poor Slope Hard to reclaim Rock fragments	 0.00 0.12 0.88
154: Frisco-----	60	Poor Stone content Low content of organic matter Too acid Cobble content Water erosion	 0.00 0.12 0.84 0.96 0.99	Poor Slope Low strength Stone content Cobble content	 0.00 0.00 0.00 0.33	Poor Slope Rock fragments Hard to reclaim	 0.00 0.00 0.00

Table 20.--Construction materials--Continued

Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
154: Horsethief-----	25	Poor Stone content Low content of organic matter Too acid	0.00 0.12 0.74	Poor Slope Low strength Stone content	0.00 0.00 0.00 0.45	Poor Slope Hard to reclaim Rock fragments	0.00 0.12 0.88
155: Tuckerville-----	70	Poor Stone content Low content of organic matter Cobble content Too acid Droughty	0.00 0.12 0.84 0.84 0.93	Poor Stone content Low strength Slope Cobble content	0.00 0.00 0.00 0.30	Poor Rock fragments Hard to reclaim Slope	0.00 0.00 0.00
Rock outcrop-----	20	Not rated		Not rated		Not rated	
156: Sponsor-----	60	Fair Low content of organic matter Stone content Too acid Too clayey	0.12 0.41 0.84 0.98	Poor Low strength Slope	0.00 0.08	Poor Slope Hard to reclaim Rock fragments Too clayey	0.00 0.00 0.12 0.70
Tuckerville-----	30	Poor Stone content Low content of organic matter Too acid	0.00 0.12 0.84	Poor Low strength Stone content Slope Cobble content	0.00 0.00 0.08 0.92	Poor Slope Hard to reclaim Rock fragments	0.00 0.00 0.28
157: Sponsor-----	60	Fair Low content of organic matter Stone content Too acid Too clayey	0.12 0.41 0.84 0.98	Poor Low strength Slope	0.00 0.08	Poor Slope Hard to reclaim Rock fragments Too clayey	0.00 0.00 0.12 0.70

Table 20.--Construction materials--Continued

Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
157: Tuckerville-----	30	Poor Stone content Low content of organic matter Too acid	0.00 0.12 0.84	Poor Low strength Stone content Slope Cobble content	0.00 0.00 0.08 0.92	Poor Hard to reclaim Slope Rock fragments	0.00 0.00 0.28
158: Sponsor-----	60	Fair Low content of organic matter Stone content Too acid Too clayey	0.12 0.41 0.84 0.98	Poor Slope Low strength	0.00 0.00	Poor Hard to reclaim Slope Rock fragments Too clayey	0.00 0.00 0.12 0.70
Tuckerville-----	30	Poor Stone content Low content of organic matter Too acid	0.00 0.12 0.84	Poor Slope Low strength Stone content Cobble content	0.00 0.00 0.00 0.92	Poor Slope Hard to reclaim Rock fragments	0.00 0.00 0.28
159: Tuckerville-----	80	Poor Stone content Too acid Low content of organic matter Droughty Cobble content	0.00 0.84 0.88 0.91 0.92	Poor Low strength Stone content Slope Cobble content	0.00 0.00 0.00 0.75	Poor Slope Rock fragments Hard to reclaim	0.00 0.00 0.00
160: Anvik-----	40	Fair Low content of organic matter Too acid	0.12 0.84	Poor Low strength Slope	0.00 0.00	Poor Slope	0.00
Tuckerville-----	35	Poor Stone content Too acid Low content of organic matter Cobble content	0.00 0.84 0.88 0.97	Poor Low strength Stone content Slope Cobble content	0.00 0.00 0.00 0.92	Poor Hard to reclaim Slope Rock fragments	0.00 0.00 0.28

Table 20.--Construction materials--Continued

Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
161: Needleton-----	85	Poor Stone content Low content of organic matter Too acid Cobble content Droughty	 0.00 0.12 0.68 0.89 0.97	Poor Low strength Stone content Cobble content	 0.00 0.00 0.19	Poor Hard to reclaim Rock fragments Slope	 0.00 0.12 0.84
162: Quazar-----	45	Fair Droughty Stone content Low content of organic matter Cobble content	 0.04 0.08 0.12 0.86	Poor Low strength Slope Cobble content Stone content	 0.00 0.00 0.00 0.08	Poor Slope Rock fragments Hard to reclaim	 0.00 0.00 0.00
Varden-----	40	Poor Droughty Stone content Cobble content Low content of organic matter	 0.00 0.00 0.05 0.12	Poor Low strength Stone content Cobble content Slope	 0.00 0.00 0.00 0.00	Poor Hard to reclaim Rock fragments Slope	 0.00 0.00 0.00
163: Clayburn-----	50	Good		Poor Low strength Slope	 0.00 0.68	Poor Slope Rock fragments	 0.00 0.97
Hourglass-----	35	Fair Low content of organic matter Stone content	 0.12 0.18	Poor Low strength Slope Stone content	 0.00 0.68 0.98	Poor Slope Hard to reclaim Rock fragments	 0.00 0.02 0.28
164: Hourglass-----	50	Fair Low content of organic matter Stone content	 0.12 0.18	Poor Slope Low strength Stone content	 0.00 0.00 0.98	Poor Slope Hard to reclaim Rock fragments	 0.00 0.02 0.28

Table 20.--Construction materials--Continued

Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
164: Bucklon-----	25	Poor Droughty Depth to bedrock	0.00 0.00	Poor Depth to bedrock Slope Low strength	0.00 0.00 0.00	Poor Slope Depth to bedrock	0.00 0.00
Wander-----	15	Fair Cobble content Stone content Low content of organic matter Droughty	0.05 0.08 0.88 0.90	Poor Slope Low strength Cobble content Stone content	0.00 0.00 0.00 0.08	Poor Rock fragments Hard to reclaim Slope	0.00 0.00 0.00
165: Pinacol-----	85	Poor Stone content Too clayey Low content of organic matter Too acid Cobble content	0.00 0.01 0.12 0.84 0.94	Poor Stone content Low strength Cobble content Shrink-swell	0.00 0.00 0.35 0.97	Poor Rock fragments Hard to reclaim Too clayey	0.00 0.00 0.00
166: Pinacol-----	80	Poor Stone content Too clayey Low content of organic matter Too acid Cobble content	0.00 0.01 0.12 0.84 0.94	Poor Low strength Stone content Slope Cobble content Shrink-swell	0.00 0.00 0.00 0.35 0.97	Poor Slope Hard to reclaim Rock fragments Too clayey	0.00 0.00 0.00 0.00
250: Snowdon-----	55	Poor Stone content Droughty Depth to bedrock Low content of organic matter Too acid Cobble content	0.00 0.00 0.00 0.12 0.68 0.81	Poor Depth to bedrock Slope Low strength Stone content Cobble content	0.00 0.00 0.00 0.00 0.29	Poor Slope Rock fragments Depth to bedrock	0.00 0.00 0.00
Rock outcrop-----	25	Not rated		Not rated		Not rated	

Table 20.--Construction materials--Continued

Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
251: Rock outcrop-----	60	Not rated		Not rated		Not rated	
Snowdon-----	25	Poor		Poor		Poor	
		Droughty	0.00	Depth to bedrock	0.00	Slope	0.00
		Stone content	0.00	Slope	0.00	Rock fragments	0.00
		Depth to bedrock	0.00	Low strength	0.00	Depth to bedrock	0.00
		Low content of organic matter	0.12	Stone content	0.00		
		Too acid	0.68	Cobble content	0.29		
		Cobble content	0.81				
254: Typic Cryorthents---	50	Poor		Poor		Poor	
		Stone content	0.00	Slope	0.00	Hard to reclaim	0.00
		Droughty	0.00	Low strength	0.00	Rock fragments	0.00
		Low content of organic matter	0.50	Stone content	0.00	Slope	0.00
		Cobble content	0.66	Cobble content	0.00		
Rubble land-----	30	Not rated		Not rated		Not rated	
330: Needleton-----	85	Poor		Poor		Poor	
		Stone content	0.00	Stone content	0.00	Slope	0.00
		Low content of organic matter	0.12	Low strength	0.00	Hard to reclaim	0.00
		Too acid	0.68	Cobble content	0.19	Rock fragments	0.12
		Cobble content	0.89	Slope	0.68		
		Droughty	0.97				
331: Needleton-----	80	Poor		Poor		Poor	
		Stone content	0.00	Stone content	0.00	Slope	0.00
		Low content of organic matter	0.12	Slope	0.00	Hard to reclaim	0.00
		Too acid	0.68	Low strength	0.00	Rock fragments	0.12
		Cobble content	0.89	Cobble content	0.19		
		Droughty	0.97				

Table 20.--Construction materials--Continued

Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
332: Horsethief-----	55	Poor Stone content Too acid Droughty	0.00 0.74 0.99	Poor Slope Low strength Stone content Cobble content	0.00 0.00 0.00 0.00 0.72	Poor Slope Rock fragments Hard to reclaim	0.00 0.00 0.12
Needleton-----	35	Poor Stone content Low content of organic matter Too acid Cobble content Droughty	0.00 0.12 0.68 0.89 0.97	Poor Slope Low strength Stone content Cobble content	0.00 0.00 0.00 0.00 0.19	Poor Slope Hard to reclaim Rock fragments	0.00 0.00 0.12
333: Henson, south aspect	85	Poor Stone content Cobble content Droughty Low content of organic matter Too acid	0.00 0.18 0.21 0.50 0.50	Poor Low strength Stone content Cobble content Slope	0.00 0.00 0.00 0.00 0.68	Poor Hard to reclaim Rock fragments Slope Too acid	0.00 0.00 0.00 0.88
334: Henson, south aspect	80	Poor Stone content Cobble content Droughty Too acid Low content of organic matter	0.00 0.18 0.21 0.50 0.50	Poor Cobble content Slope Low strength Stone content	0.00 0.00 0.00 0.00	Poor Slope Hard to reclaim Rock fragments Too acid	0.00 0.00 0.00 0.88
335: Whitecross-----	55	Poor Droughty Depth to bedrock Stone content Too acid Cobble content Low content of organic matter	0.00 0.00 0.00 0.54 0.71 0.88	Poor Depth to bedrock Low strength Stone content Slope Cobble content	0.00 0.00 0.00 0.00 0.21	Poor Rock fragments Slope Depth to bedrock Too acid	0.00 0.00 0.00 0.98

Table 20.--Construction materials--Continued

Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
335: Rock outcrop-----	30	Not rated		Not rated		Not rated	
336: Whitcross, south aspect-----	50	Poor Droughty Depth to bedrock Stone content Too acid Cobble content Low content of organic matter	 0.00 0.00 0.00 0.54 0.71 0.88	Poor Stone content Slope Low strength Depth to bedrock Cobble content	 0.00 0.00 0.00 0.00 0.21	Poor Rock fragments Slope Depth to bedrock Too acid	 0.00 0.00 0.00 0.98
Rock outcrop-----	25	Not rated		Not rated		Not rated	
337: Whitcross-----	60	Poor Depth to bedrock Stone content Droughty Too acid Cobble content Low content of organic matter	 0.00 0.00 0.00 0.54 0.71 0.88	Poor Depth to bedrock Slope Low strength Stone content Cobble content	 0.00 0.00 0.00 0.00 0.21	Poor Slope Depth to bedrock Rock fragments Too acid	 0.00 0.00 0.00 0.98
Rock outcrop-----	25	Not rated		Not rated		Not rated	
338: Henson-----	80	Poor Stone content Cobble content Droughty Too acid Low content of organic matter	 0.00 0.18 0.21 0.50 0.50	Poor Cobble content Low strength Stone content Slope	 0.00 0.00 0.00 0.68	Poor Rock fragments Slope Hard to reclaim Too acid	 0.00 0.00 0.00 0.88

Table 20.--Construction materials--Continued

Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
339: Henson-----	80	Poor Stone content Cobble content Droughty Too acid Low content of organic matter	 0.00 0.18 0.21 0.50 0.50	Poor Low strength Stone content Cobble content Slope	 0.00 0.00 0.00 0.00	Poor Slope Hard to reclaim Rock fragments Too acid	 0.00 0.00 0.00 0.88
340: Moran-----	80	Poor Stone content Low content of organic matter Droughty Too acid Cobble content	 0.00 0.12 0.52 0.54 0.70	Poor Low strength Stone content Cobble content Slope	 0.00 0.00 0.38 0.68	Poor Rock fragments Slope Hard to reclaim Too acid	 0.00 0.00 0.00 0.9800
341: Moran-----	80	Poor Stone content Low content of organic matter Droughty Too acid Cobble content	 0.00 0.12 0.52 0.54 0.70	Poor Low strength Stone content Slope Cobble content	 0.00 0.00 0.00 0.38	Poor Slope Hard to reclaim Rock fragments Too acid	 0.00 0.00 0.00 0.98
342: Telluride-----	60	Poor Depth to bedrock Droughty Stone content Too acid Low content of organic matter	 0.00 0.00 0.07 0.54 0.88	Poor Depth to bedrock Low strength Slope Stone content Cobble content	 0.00 0.00 0.00 0.28 0.87	Poor Rock fragments Depth to bedrock Slope Too acid	 0.00 0.00 0.00 0.98
Rock outcrop-----	20	Not rated		Not rated		Not rated	

Table 20.--Construction materials--Continued

Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
343: Telluride-----	60	Poor Droughty Depth to bedrock Stone content Too acid Low content of organic matter	 0.00 0.00 0.07 0.54 0.88	Poor Slope Low strength Depth to bedrock Stone content Cobble content	 0.00 0.00 0.00 0.28 0.87	Poor Depth to bedrock Rock fragments Slope Too acid	 0.00 0.00 0.00 0.98
Rock outcrop-----	25	Not rated		Not rated		Not rated	
345: Papaspila-----	85	Poor Stone content	 0.00	Poor Low strength Stone content Cobble content	 0.00 0.22 0.95	Poor Hard to reclaim	 0.00
350: Flygare-----	45	Poor Stone content Cobble content Too acid Low content of organic matter Droughty Too clayey	 0.00 0.17 0.84 0.88 0.94 0.98	Poor Low strength Stone content Cobble content	 0.00 0.00 0.00	Poor Rock fragments Hard to reclaim Too clayey	 0.00 0.00 0.70
Foidel-----	40	Fair Water erosion	 0.99	Poor Low strength	 0.00	Fair Hard to reclaim	 0.68
355: Flygare-----	45	Poor Stone content Cobble content Too acid Low content of organic matter Droughty Too clayey	 0.00 0.17 0.84 0.88 0.94 0.98	Poor Stone content Cobble content Low strength Slope	 0.00 0.00 0.00 0.08	Poor Slope Hard to reclaim Rock fragments Too clayey	 0.00 0.00 0.00 0.70
Foidel-----	40	Fair Water erosion	 0.99	Poor Low strength Slope	 0.00 0.08	Poor Slope Hard to reclaim	 0.00 0.68

Table 20.--Construction materials--Continued

Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
360: Blacksnag-----	45	Poor Stone content Low content of organic matter Cobble content Droughty Too acid	0.00 0.12 0.36 0.44 0.95	Poor Low strength Cobble content Stone content	0.00 0.00 0.00	Poor Rock fragments Hard to reclaim Slope	0.00 0.00 0.96
Peeler-----	40	Fair Low content of organic matter Too acid Water erosion Stone content	0.12 0.84 0.90 0.91	Poor Low strength Stone content	0.00 0.77	Fair Rock fragments Slope	0.02 0.96
361: Blacksnag-----	45	Poor Stone content Low content of organic matter Cobble content Droughty Too acid	0.00 0.12 0.36 0.44 0.95	Poor Low strength Cobble content Stone content Slope	0.00 0.00 0.00 0.08	Poor Rock fragments Hard to reclaim Slope	0.00 0.00 0.00
Peeler-----	40	Fair Low content of organic matter Too acid Water erosion Stone content	0.12 0.84 0.90 0.97	Poor Low strength Slope Stone content	0.00 0.08 0.80	Poor Slope Rock fragments	0.00 0.02
374: Mavreeso-----	35	Fair Low content of organic matter Water erosion	0.12 0.99	Poor Slope Low strength	0.00 0.00	Poor Slope	0.00

Table 20.--Construction materials--Continued

Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
374: Valto-----	30	Poor Droughty Depth to bedrock Stone content Low content of organic matter Too acid	 0.00 0.00 0.00 0.50 0.84	Poor Depth to bedrock Slope Low strength Stone content Cobble content	 0.00 0.00 0.00 0.00 0.92	Poor Slope Depth to bedrock Rock fragments	 0.00 0.00 0.00
Rock outcrop-----	20	Not rated		Not rated		Not rated	
375: Needleton-----	55	Poor Stone content Low content of organic matter Too acid Cobble content Droughty	 0.00 0.12 0.68 0.89 0.97	Poor Low strength Stone content Cobble content	 0.00 0.00 0.19	Poor Hard to reclaim Rock fragments Slope	 0.00 0.12 0.84
Snowdon-----	30	Poor Droughty Stone content Depth to bedrock Low content of organic matter Too acid Cobble content	 0.00 0.00 0.00 0.12 0.68 0.94	Poor Depth to bedrock Low strength Stone content Cobble content	 0.00 0.00 0.00 0.35	Poor Rock fragments Depth to bedrock Slope	 0.00 0.00 0.84
376: Needleton-----	80	Poor Stone content Low content of organic matter Too acid Cobble content Water erosion	 0.00 0.12 0.68 0.98 0.99	Poor Low strength Stone content Slope Cobble content	 0.00 0.00 0.08 0.64	Poor Slope Hard to reclaim	 0.00 0.00

Table 20.--Construction materials--Continued

Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
378: Needleton-----	65	Poor Stone content Low content of organic matter Too acid Cobble content Water erosion	0.00 0.12 0.68 0.98 0.99	Poor Slope Low strength Stone content Cobble content	0.00 0.00 0.00 0.64	Poor Slope Hard to reclaim	0.00 0.00
Haviland-----	25	Fair Low content of organic matter Too acid	0.12 0.50	Poor Slope Low strength	0.00 0.00	Poor Slope Hard to reclaim Too acid	0.00 0.24 0.88
380: Snowdon-----	50	Poor Stone content Droughty Depth to bedrock Low content of organic matter Too acid Cobble content	0.00 0.00 0.00 0.12 0.74 0.94	Poor Depth to bedrock Low strength Stone content Slope Cobble content	0.00 0.00 0.00 0.50 0.56	Poor Rock fragments Slope Depth to bedrock	0.00 0.00 0.00
Rock outcrop-----	35	Not rated		Not rated		Not rated	
381: Needleton-----	45	Poor Stone content Low content of organic matter Too acid Cobble content Droughty	0.00 0.12 0.68 0.89 0.97	Poor Slope Low strength Stone content Cobble content	0.00 0.00 0.00 0.19	Poor Slope Hard to reclaim Rock fragments	0.00 0.00 0.12
Snowdon-----	30	Poor Stone content Droughty Depth to bedrock Low content of organic matter Too acid Cobble content	0.00 0.00 0.00 0.12 0.68 0.81	Poor Depth to bedrock Slope Low strength Stone content Cobble content	0.00 0.00 0.00 0.00 0.29	Poor Slope Rock fragments Depth to bedrock	0.00 0.00 0.00

Table 20.--Construction materials--Continued

Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
381: Rock outcrop-----	15	Not rated		Not rated		Not rated	
382: Needleton-----	50	Poor		Poor		Poor	
		Stone content	0.00	Low strength	0.00	Slope	0.00
		Low content of organic matter	0.12	Stone content	0.00	Hard to reclaim	0.00
		Too acid	0.68	Slope	0.08	Rock fragments	0.12
		Cobble content	0.89	Cobble content	0.19		
		Droughty	0.97				
Snowdon-----	30	Poor		Poor		Poor	
		Stone content	0.00	Depth to bedrock	0.00	Slope	0.00
		Droughty	0.00	Low strength	0.00	Rock fragments	0.00
		Depth to bedrock	0.00	Stone content	0.00	Depth to bedrock	0.00
		Low content of organic matter	0.12	Slope	0.08		
		Too acid	0.68	Cobble content	0.29		
		Cobble content	0.81				
383: Haviland-----	50	Fair		Poor		Poor	
		Low content of organic matter	0.12	Low strength	0.00	Slope	0.00
		Too acid	0.50	Slope	0.50	Hard to reclaim	0.24
						Too acid	0.88
Needleton-----	35	Poor		Poor		Poor	
		Stone content	0.00	Low strength	0.00	Hard to reclaim	0.00
		Low content of organic matter	0.12	Stone content	0.00	Slope	0.00
		Too acid	0.68	Cobble content	0.19	Rock fragments	0.12
		Cobble content	0.89	Slope	0.50		
		Droughty	0.97				
386: Needleton-----	70	Poor		Poor		Poor	
		Stone content	0.00	Slope	0.00	Slope	0.00
		Low content of organic matter	0.12	Low strength	0.00	Hard to reclaim	0.00
		Too acid	0.68	Stone content	0.00	Rock fragments	0.12
		Cobble content	0.89	Cobble content	0.19		
		Droughty	0.97				

Table 20.--Construction materials--Continued

Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
387: Frisco-----	50	Poor Stone content Low content of organic matter Too acid Cobble content	 0.00 0.12 0.84 0.90	Poor Slope Low strength Stone content Cobble content	 0.00 0.00 0.00 0.14	Poor Slope Rock fragments Hard to reclaim	 0.00 0.00 0.00
Quazar-----	40	Fair Droughty Low content of organic matter Stone content Cobble content	 0.04 0.12 0.15 0.86	Poor Slope Low strength Cobble content Stone content	 0.00 0.00 0.00 0.19	Poor Slope Hard to reclaim Rock fragments	 0.00 0.00 0.00
388: Frisco-----	50	Poor Stone content Low content of organic matter Cobble content Too acid	 0.00 0.12 0.83 0.84	Poor Low strength Stone content Cobble content Slope	 0.00 0.00 0.03 0.08	Poor Slope Rock fragments Hard to reclaim	 0.00 0.00 0.00
Quazar-----	45	Fair Droughty Low content of organic matter Stone content Cobble content	 0.04 0.12 0.15 0.86	Poor Low strength Cobble content Slope Stone content	 0.00 0.00 0.08 0.19	Poor Slope Hard to reclaim Rock fragments	 0.00 0.00 0.00
389: Seitz-----	85	Poor Stone content Too clayey Low content of organic matter Too acid Cobble content	 0.00 0.00 0.12 0.84 0.85	Poor Low strength Stone content Cobble content Slope	 0.00 0.00 0.13 0.50	Poor Rock fragments Too clayey Hard to reclaim Slope	 0.00 0.00 0.00 0.00
390: Clayburn-----	40	Good		Poor Low strength Slope	 0.00 0.00	Poor Slope Rock fragments	 0.00 0.97

Table 20.--Construction materials--Continued

Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
390: Heisspitz-----	30	Poor Depth to bedrock Droughty Too acid	0.00 0.00 0.95	Poor Slope Low strength Depth to bedrock	0.00 0.00 0.00 0.00	Poor Slope Depth to bedrock	0.00 0.00 0.00
391: Runlett-----	50	Fair Depth to bedrock Droughty Too acid	0.29 0.46 0.95	Poor Depth to bedrock Low strength Slope Shrink-swell	0.00 0.00 0.82 0.96	Poor Slope Depth to bedrock	0.00 0.00 0.29
Sessions-----	30	Poor Too clayey Low content of organic matter	0.00 0.88	Poor Low strength Slope Shrink-swell	0.00 0.82 0.97	Poor Slope Too clayey Hard to reclaim	0.00 0.00 0.00 0.68
392: Runlett-----	30	Fair Depth to bedrock Droughty Too acid	0.26 0.43 0.95	Poor Depth to bedrock Low strength Slope Shrink-swell	0.00 0.00 0.00 0.97	Poor Slope Depth to bedrock	0.00 0.00 0.26
Needleton-----	30	Poor Stone content Low content of organic matter Too acid Cobble content Water erosion	0.00 0.12 0.68 0.98 0.99	Poor Low strength Stone content Slope Cobble content	0.00 0.00 0.00 0.64	Poor Hard to reclaim Slope	0.00 0.00 0.00
Sessions-----	20	Poor Too clayey Low content of organic matter	0.00 0.88	Poor Low strength Slope Shrink-swell	0.00 0.00 0.97	Poor Slope Too clayey Hard to reclaim	0.00 0.00 0.00 0.92
393: Heisspitz-----	50	Poor Droughty Depth to bedrock Too acid	0.00 0.00 0.95	Poor Depth to bedrock Low strength	0.00 0.00	Poor Depth to bedrock Slope	0.00 0.84

Table 20.--Construction materials--Continued

Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
393: Sessions-----	25	Poor Too clayey Low content of organic matter	0.00 0.88	Poor Low strength Shrink-swell	0.00 0.97	Poor Too clayey Slope Hard to reclaim	0.00 0.84 0.92
Rock outcrop-----	20	Not rated		Not rated		Not rated	
394: Clayburn-----	55	Good		Poor Low strength Slope	0.00 0.08	Poor Slope Rock fragments	0.00 0.97
Heisspitz-----	30	Poor Droughty Depth to bedrock Too acid	0.00 0.00 0.95	Poor Low strength Depth to bedrock Slope	0.00 0.00 0.08	Poor Slope Depth to bedrock	0.00 0.00
395: Scout-----	85	Fair Stone content Low content of organic matter Cobble content Too acid Droughty Water erosion	0.11 0.12 0.13 0.84 0.91 0.99	Poor Low strength Cobble content Stone content Slope	0.00 0.00 0.14 0.68	Poor Hard to reclaim Rock fragments Slope	0.00 0.00 0.00
396: Scout-----	85	Fair Stone content Low content of organic matter Cobble content Too acid Droughty Water erosion	0.11 0.12 0.13 0.84 0.91 0.99	Poor Slope Low strength Cobble content Stone content	0.00 0.00 0.00 0.14	Poor Slope Rock fragments Hard to reclaim	0.00 0.00 0.00

Table 20.--Construction materials--Continued

Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
399: Kite-----	40	Poor Droughty Depth to bedrock Too acid	 0.00 0.00 0.50	Poor Depth to bedrock Low strength Slope	 0.00 0.00 0.08	Poor Depth to bedrock Slope Too acid Rock fragments	 0.00 0.00 0.88 0.88
Rock outcrop-----	35	Not rated		Not rated		Not rated	
450: Lostlake-----	45	Poor Depth to bedrock Droughty Too acid Low content of organic matter	 0.00 0.00 0.50 0.88	Poor Depth to bedrock Slope Low strength	 0.00 0.00 0.00	Poor Slope Depth to bedrock Rock fragments Too acid	 0.00 0.00 0.00 0.88
Rock outcrop-----	35	Not rated		Not rated		Not rated	
452: Dystrocryepts-----	55	Poor Droughty Depth to bedrock Too acid	 0.00 0.00 0.50	Poor Depth to bedrock Low strength Slope	 0.00 0.00 0.08	Poor Depth to bedrock Rock fragments Slope Too acid	 0.00 0.00 0.00 0.88
Rock outcrop-----	35	Not rated		Not rated		Not rated	
453: Sig-----	40	Poor Depth to bedrock Droughty Too acid Low content of organic matter	 0.00 0.00 0.74 0.88	Poor Slope Low strength Depth to bedrock	 0.00 0.00 0.00	Poor Slope Depth to bedrock Rock fragments	 0.00 0.00 0.00
Rock outcrop-----	30	Not rated		Not rated		Not rated	

Table 20.--Construction materials--Continued

Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
453: Snowdon-----	20	Poor Stone content Droughty Depth to bedrock Low content of organic matter Too acid Cobble content	 0.00 0.00 0.00 0.12 0.68 0.85	Poor Depth to bedrock Low strength Stone content Slope Cobble content	 0.00 0.00 0.00 0.00 0.36	Poor Slope Rock fragments Depth to bedrock	 0.00 0.00 0.00
454: Snowdon-----	35	Poor Droughty Stone content Depth to bedrock Low content of organic matter Cobble content Too acid	 0.00 0.00 0.00 0.12 0.61 0.68	Poor Slope Low strength Depth to bedrock Stone content Cobble content	 0.00 0.00 0.00 0.00 0.12	Poor Slope Rock fragments Depth to bedrock	 0.00 0.00 0.00
Sig-----	30	Poor Droughty Depth to bedrock Too acid Low content of organic matter	 0.00 0.00 0.74 0.88	Poor Slope Low strength Depth to bedrock	 0.00 0.00 0.00	Poor Depth to bedrock Slope Rock fragments	 0.00 0.00 0.00
Rock outcrop-----	25	Not rated		Not rated		Not rated	
493: Badland-----	90	Not rated		Not rated		Not rated	
494: Pits, gravel-----	100	Not rated		Not rated		Not rated	
495: Riverwash-----	85	Not rated		Not rated		Not rated	
496: Rock outcrop-----	70	Not rated		Not rated		Not rated	

Table 20.--Construction materials--Continued

Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
497: Rubble land-----	80	Not rated		Not rated		Not rated	
498: Slickens-----	80	Not rated		Not rated		Not rated	
499: Water-----	100	Not rated		Not rated		Not rated	
500: Dolores-----	50	Poor Too clayey Stone content Low content of organic matter Droughty Too acid Cobble content	 0.00 0.00 0.12 0.67 0.84 0.90	Poor Low strength Stone content Cobble content	 0.00 0.00 0.18	Poor Rock fragments Too clayey Hard to reclaim	 0.00 0.00 0.00
Fivepine-----	35	Poor Stone content Droughty Depth to bedrock Too clayey	 0.00 0.00 0.00 0.76	Poor Depth to bedrock Low strength Stone content Shrink-swell	 0.00 0.00 0.00 0.87	Poor Depth to bedrock Rock fragments Too clayey	 0.00 0.50 0.66
501: Fivepine-----	60	Poor Droughty Depth to bedrock Stone content Too clayey	 0.00 0.00 0.00 0.76	Poor Depth to bedrock Low strength Stone content Shrink-swell	 0.00 0.00 0.20 0.87	Poor Depth to bedrock Rock fragments Too clayey	 0.00 0.50 0.63
Nortez-----	25	Fair Too clayey Depth to bedrock Low content of organic matter Droughty	 0.02 0.71 0.88 0.97	Poor Depth to bedrock Low strength Shrink-swell	 0.00 0.00 0.12	Fair Too clayey Depth to bedrock	 0.01 0.71

Table 20.--Construction materials--Continued

Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
503: Ormiston-----	50	Poor Stone content Too clayey Droughty Low content of organic matter Carbonate content Cobble content	0.00 0.01 0.86 0.88 0.97 0.98	Poor Low strength Stone content Depth to bedrock Cobble content Shrink-swell	0.00 0.00 0.12 0.25 0.87	Poor Rock fragments Hard to reclaim Too clayey	0.00 0.00 0.00
Fivepine-----	35	Poor Droughty Depth to bedrock Stone content Too clayey	0.00 0.00 0.00 0.76	Poor Depth to bedrock Low strength Stone content Shrink-swell	0.00 0.00 0.20 0.87	Poor Depth to bedrock Rock fragments Too clayey	0.00 0.50 0.63
504: Jemco-----	40	Fair Low content of organic matter Water erosion Too clayey Depth to bedrock	0.88 0.90 0.98 0.99	Poor Depth to bedrock Low strength	0.00 0.00	Fair Too clayey Depth to bedrock	0.70 0.99
Detra-----	30	Good		Poor Low strength Depth to bedrock	0.00 0.98	Good	
Beje-----	20	Poor Droughty Depth to bedrock Low content of organic matter	0.00 0.00 0.88	Poor Depth to bedrock Low strength	0.00 0.00	Poor Depth to bedrock	0.00
505: Moento-----	80	Fair Depth to bedrock Too clayey	0.93 0.95	Poor Depth to bedrock Low strength	0.00 0.00	Fair Depth to bedrock Too clayey	0.93 0.95

Table 20.--Construction materials--Continued

Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
506: Moento-----	35	Fair Low content of organic matter Depth to bedrock Too clayey	0.88 0.93 0.98	Poor Depth to bedrock Low strength Shrink-swell	0.00 0.00 0.96	Fair Too clayey Depth to bedrock	0.70 0.93
Detra-----	30	Good		Poor Low strength Depth to bedrock	0.00 0.98	Fair Slope	0.96
Jemco-----	20	Fair Low content of organic matter Water erosion Too clayey Depth to bedrock	0.88 0.90 0.98 0.99	Poor Depth to bedrock Low strength	0.00 0.00	Fair Too clayey Depth to bedrock	0.70 0.99
508: Herm-----	50	Fair Too clayey Low content of organic matter	0.01 0.88	Poor Low strength Shrink-swell	0.00 0.36	Poor Too clayey	0.00
Pagoda-----	35	Fair Too clayey Too acid Low content of organic matter	0.01 0.84 0.88	Poor Low strength Shrink-swell	0.00 0.26	Poor Too clayey	0.00
509: Burnson, dry-----	80	Poor Too clayey Too acid Low content of organic matter	0.00 0.84 0.88	Poor Low strength Depth to bedrock Shrink-swell	0.00 0.12 0.12	Poor Too clayey	0.00

Table 20.--Construction materials--Continued

Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
510: Jemco-----	60	Fair Low content of organic matter Water erosion Too clayey Depth to bedrock	0.88 0.90 0.98 0.99	Poor Depth to bedrock Low strength	0.00 0.00	Fair Too clayey Depth to bedrock	0.70 0.99
Moento-----	25	Fair Depth to bedrock Too clayey	0.93 0.95	Poor Depth to bedrock Low strength	0.00 0.00	Fair Too clayey Depth to bedrock	0.84 0.93
511: Granath-----	50	Fair Too clayey	0.98	Poor Low strength	0.00	Fair Too clayey	0.76
Fughes-----	35	Fair Too clayey Too acid Low content of organic matter	0.12 0.84 0.88	Poor Low strength Shrink-swell	0.00 0.36	Fair Too clayey	0.09
512: Wetherill-----	85	Fair Low content of organic matter Carbonate content Water erosion	0.88 0.92 0.99	Poor Low strength Shrink-swell	0.00 0.97	Good	
513: Maudrey-----	50	Fair Too clayey Low content of organic matter Too acid Water erosion	0.01 0.12 0.32 0.99	Poor Low strength Shrink-swell	0.00 0.80	Poor Too clayey Too acid	0.00 0.88
Tombac-----	35	Poor Too clayey Too acid Low content of organic matter	0.00 0.84 0.88	Poor Low strength Shrink-swell	0.00 0.93	Poor Too clayey	0.00

Table 20.--Construction materials--Continued

Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
525: Arabrab-----	85	Poor Droughty Depth to bedrock Low content of organic matter	0.00 0.00 0.12	Poor Depth to bedrock Low strength	0.00 0.00	Poor Depth to bedrock Rock fragments	0.00 0.00
526: Lonecone-----	80	Fair Depth to bedrock Droughty	0.54 0.84	Poor Depth to bedrock Low strength	0.00 0.00	Fair Depth to bedrock	0.54
527: Ormiston-----	50	Poor Stone content Too clayey Low content of organic matter Carbonate content Droughty	0.00 0.01 0.12 0.54 0.86	Poor Low strength Stone content Depth to bedrock Cobble content Shrink-swell	0.00 0.00 0.12 0.47 0.87	Poor Slope Rock fragments Too clayey Hard to reclaim	0.00 0.00 0.00 0.02
Beje-----	35	Poor Droughty Depth to bedrock Low content of organic matter	0.00 0.00 0.88	Poor Depth to bedrock Low strength Slope	0.00 0.00 0.82	Poor Depth to bedrock Slope	0.00 0.00
552: Burnson-----	80	Poor Too clayey Too acid Low content of organic matter	0.00 0.84 0.88	Poor Low strength Depth to bedrock Shrink-swell	0.00 0.12 0.12	Poor Too clayey	0.00
553: Burnson-----	50	Poor Too clayey Too acid Low content of organic matter	0.00 0.84 0.88	Poor Low strength Slope Depth to bedrock Shrink-swell	0.00 0.08 0.12 0.12	Poor Slope Too clayey	0.00 0.00

Table 20.--Construction materials--Continued

Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
553: Herm-----	30	Fair Too clayey Low content of organic matter	0.01 0.88	Poor Low strength Slope Shrink-swell	0.00 0.08 0.36	Poor Slope Too clayey	0.00 0.00
571: Mancos-----	40	Fair Depth to bedrock Too acid Droughty	0.84 0.84 0.98	Poor Depth to bedrock Low strength Shrink-swell	0.00 0.00 0.80	Fair Depth to bedrock	0.84
Skisams-----	35	Poor Droughty Depth to bedrock Water erosion	0.00 0.00 0.99	Poor Depth to bedrock Low strength	0.00 0.00	Poor Depth to bedrock Rock fragments	0.00 0.97
Skutum-----	20	Fair Too acid Low content of organic matter Too clayey	0.84 0.88 0.98	Poor Low strength Depth to bedrock	0.00 0.82	Fair Hard to reclaim Too clayey	0.68 0.98
572: Sudduth-----	85	Fair Too clayey Too acid	0.76 0.84	Poor Low strength Shrink-swell	0.00 0.40	Poor Rock fragments Too clayey	0.00 0.63
600: Valto-----	50	Poor Stone content Droughty Depth to bedrock Low content of organic matter Too acid	0.00 0.00 0.00 0.50 0.84	Poor Depth to bedrock Low strength Stone content Slope Cobble content	0.00 0.00 0.00 0.00 0.92	Poor Depth to bedrock Slope Rock fragments	0.00 0.00 0.00
Rock outcrop-----	35	Not rated		Not rated		Not rated	

Table 20.--Construction materials--Continued

Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
601: Weminuche-----	85	Fair Low content of organic matter Too acid Water erosion	0.12 0.84 0.99	Poor Slope Low strength	0.00 0.00	Poor Slope Rock fragments	0.00 0.97
602: Weminuche-----	85	Fair Low content of organic matter Too acid Water erosion	0.12 0.84 0.99	Poor Low strength Slope	0.00 0.82	Poor Slope Rock fragments	0.00 0.97
603: Weminuche-----	55	Fair Low content of organic matter Too acid Water erosion	0.12 0.84 0.99	Poor Low strength Slope	0.00 0.00	Poor Slope Rock fragments	0.00 0.97
Anvik-----	25	Fair Low content of organic matter Too acid	0.12 0.84	Poor Low strength Slope	0.00 0.00	Poor Slope	0.00
605: Nordicol-----	80	Poor Stone content Low content of organic matter Too acid Droughty Cobble content	0.00 0.12 0.84 0.88 0.99	Poor Low strength Stone content Cobble content Slope	0.00 0.00 0.35 0.99	Poor Rock fragments Slope Hard to reclaim	0.00 0.00 0.08

Table 20.--Construction materials--Continued

Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
606: Snowdon-----	50	Poor Droughty Stone content Depth to bedrock Low content of organic matter Too acid Cobble content	 0.00 0.00 0.00 0.12 0.68 0.81	Poor Depth to bedrock Slope Low strength Stone content Cobble content	 0.00 0.00 0.00 0.00 0.29	Poor Slope Rock fragments Depth to bedrock	 0.00 0.00 0.00
Needleton-----	35	Poor Stone content Low content of organic matter Too acid Cobble content Droughty	 0.00 0.12 0.68 0.89 0.97	Poor Slope Low strength Stone content Cobble content	 0.00 0.00 0.00 0.19	Poor Slope Hard to reclaim Rock fragments	 0.00 0.00 0.12
607: Graysill-----	45	Fair Too acid Low content of organic matter Depth to bedrock	 0.50 0.88 0.97	Poor Depth to bedrock Slope Low strength	 0.00 0.00 0.00	Poor Slope Too acid Rock fragments Depth to bedrock	 0.00 0.88 0.88 0.97
Scotch-----	35	Poor Depth to bedrock Droughty Too acid Low content of organic matter	 0.00 0.00 0.50 0.88	Poor Depth to bedrock Slope Low strength	 0.00 0.00 0.00	Poor Slope Depth to bedrock Rock fragments Too acid	 0.00 0.00 0.88 0.88
608: Scotch-----	45	Poor Depth to bedrock Droughty Too acid Low content of organic matter	 0.00 0.00 0.50 0.88	Poor Slope Low strength Depth to bedrock	 0.00 0.00 0.00	Poor Slope Depth to bedrock Rock fragments Too acid	 0.00 0.00 0.88 0.88

Table 20.--Construction materials--Continued

Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
608: Graysill-----	35	Fair Too acid Low content of organic matter Depth to bedrock	0.50 0.88 0.97	Poor Slope Low strength Depth to bedrock	0.00 0.00 0.00	Poor Slope Rock fragments Too acid Depth to bedrock	0.00 0.88 0.88 0.97
609: Hourglass-----	50	Fair Low content of organic matter Stone content	0.12 0.18	Poor Low strength Slope Stone content	0.00 0.82 0.98	Poor Slope Hard to reclaim Rock fragments	0.00 0.02 0.28
Wander-----	35	Fair Cobble content Stone content Low content of organic matter Droughty	0.05 0.08 0.88 0.90	Poor Low strength Cobble content Stone content Slope	0.00 0.00 0.08 0.82	Poor Hard to reclaim Slope Rock fragments	0.00 0.00 0.00
610: Wander-----	45	Fair Cobble content Stone content Low content of organic matter Droughty	0.05 0.08 0.88 0.90	Poor Slope Cobble content Low strength Stone content	0.00 0.00 0.00 0.08	Poor Hard to reclaim Rock fragments Slope	0.00 0.00 0.00
Hotter-----	30	Poor Stone content Droughty Depth to bedrock Low content of organic matter Cobble content	0.00 0.00 0.00 0.50 0.57	Poor Depth to bedrock Slope Low strength Stone content Cobble content	0.00 0.00 0.00 0.00 0.20	Poor Slope Depth to bedrock Rock fragments	0.00 0.00 0.00
Hourglass-----	15	Fair Low content of organic matter Stone content	0.12 0.18	Poor Slope Low strength Stone content	0.00 0.00 0.98	Poor Slope Hard to reclaim Rock fragments	0.00 0.02 0.28

Table 20.--Construction materials--Continued

Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
611: Goldbug-----	85	Poor Stone content Too acid Low content of organic matter Too sandy	0.00 0.84 0.88 0.99	Poor Low strength Stone content Slope Cobble content Shrink-swell	0.00 0.00 0.82 0.84 0.99	Poor Rock fragments Slope Hard to reclaim Too sandy	0.00 0.00 0.50 0.99
612: Haviland-----	50	Fair Low content of organic matter Too acid	0.12 0.50	Poor Low strength Slope	0.00 0.82	Poor Slope Rock fragments Hard to reclaim Too acid	0.00 0.00 0.24 0.88
Graysill-----	35	Fair Too acid Low content of organic matter Depth to bedrock	0.50 0.88 0.97	Poor Depth to bedrock Low strength Slope	0.00 0.00 0.82	Poor Slope Too acid Rock fragments Depth to bedrock	0.00 0.88 0.88 0.97
615: Haviland-----	75	Fair Low content of organic matter Too acid	0.12 0.50	Poor Slope Low strength	0.00 0.00	Poor Slope Rock fragments Hard to reclaim Too acid	0.00 0.00 0.24 0.88
616: Furtlewis-----	85	Poor Too clayey Low content of organic matter Stone content Too acid Droughty Depth to bedrock	0.00 0.12 0.22 0.84 0.99 0.99	Poor Low strength Depth to bedrock Stone content Shrink-swell	0.00 0.00 0.24 0.91	Poor Too clayey Rock fragments Depth to bedrock	0.00 0.97 0.99
617: Shawa-----	85	Fair Low content of organic matter	0.88	Poor Low strength	0.00	Fair Hard to reclaim Slope	0.02 0.26

Table 20.--Construction materials--Continued

Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
618: Nordicol-----	50	Poor Stone content Low content of organic matter Too acid Droughty Cobble content	 0.00 0.12 0.84 0.95 0.99	Poor Slope Stone content Low strength Cobble content	 0.00 0.00 0.00 0.39	Poor Slope Rock fragments Hard to reclaim	 0.00 0.00 0.08
Valto-----	35	Poor Stone content Droughty Depth to bedrock Low content of organic matter Too acid	 0.00 0.00 0.00 0.50 0.84	Poor Depth to bedrock Slope Low strength Stone content Cobble content	 0.00 0.00 0.00 0.00 0.92	Poor Slope Depth to bedrock Rock fragments	 0.00 0.00 0.00
619: Nordicol-----	80	Poor Stone content Low content of organic matter Cobble content Too acid Droughty	 0.00 0.12 0.65 0.84 0.97	Poor Slope Low strength Stone content Cobble content	 0.00 0.00 0.00 0.13	Poor Rock fragments Hard to reclaim Slope	 0.00 0.00 0.00
620: Caviness-----	90	Fair Stone content Low content of organic matter Too acid	 0.12 0.12 0.32	Poor Low strength Stone content Slope Shrink-swell Depth to bedrock	 0.00 0.00 0.08 0.83 0.99	Poor Slope Rock fragments Too acid	 0.00 0.12 0.98
621: Granturk-----	85	Poor Depth to bedrock Droughty Too acid Low content of organic matter	 0.00 0.00 0.50 0.50	Poor Depth to bedrock Low strength	 0.00 0.00	Poor Depth to bedrock Slope Rock fragments Too acid	 0.00 0.00 0.88 0.88

Table 20.--Construction materials--Continued

Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
622: Granturk-----	60	Poor Depth to bedrock Droughty Low content of organic matter Too acid	0.00 0.00 0.50 0.50	Poor Depth to bedrock Slope Low strength	0.00 0.00 0.00	Poor Slope Depth to bedrock Rock fragments Too acid	0.00 0.00 0.88 0.88
Rock outcrop-----	30	Not rated		Not rated		Not rated	
623: Chris-----	50	Fair Low content of organic matter Too acid	0.12 0.84	Poor Slope Low strength Cobble content	0.00 0.00 0.89	Poor Slope Hard to reclaim Rock fragments	0.00 0.00 0.00
Nordicol-----	40	Poor Stone content Low content of organic matter Too acid Droughty Cobble content	0.00 0.12 0.84 0.95 0.99	Poor Low strength Stone content Slope Cobble content	0.00 0.00 0.08 0.39	Poor Slope Rock fragments Hard to reclaim	0.00 0.00 0.08
699: Haplocryolls-----	40	Poor Stone content Cobble content Too acid Low content of organic matter Droughty	0.00 0.13 0.84 0.88 0.98	Poor Low strength Cobble content Slope Stone content	0.00 0.00 0.00 0.00	Poor Hard to reclaim Rock fragments Slope	0.00 0.00 0.00
Rubble land-----	40	Not rated		Not rated		Not rated	
700: Bradfield-----	90	Poor Too clayey Low content of organic matter	0.00 0.12	Poor Low strength Shrink-swell	0.00 0.12	Poor Too clayey	0.00

Table 20.--Construction materials--Continued

Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
703: Narraguinnep-----	80	Poor Too clayey Low content of organic matter	0.00 0.88	Poor Low strength Slope Shrink-swell	0.00 0.00 0.40	Poor Too clayey Slope	0.00 0.00
704: Gladlow-----	30	Poor Too clayey Low content of organic matter	0.00 0.12	Poor Low strength Shrink-swell	0.00 0.87	Poor Too clayey Slope	0.00 0.96
Rock outcrop-----	30	Not rated		Not rated		Not rated	
Ruko-----	20	Poor Depth to bedrock Droughty Too clayey Low content of organic matter	0.00 0.00 0.01 0.88	Poor Depth to bedrock Low strength Shrink-swell	0.00 0.00 0.87	Poor Depth to bedrock Too clayey Slope	0.00 0.00 0.96
705: Helmet-----	80	Poor Too clayey Too acid Low content of organic matter	0.00 0.84 0.88	Poor Low strength Shrink-swell	0.00 0.34	Poor Too clayey	0.00
706: Narraguinnep-----	85	Poor Too clayey Low content of organic matter	0.00 0.88	Poor Low strength Shrink-swell	0.00 0.40	Poor Too clayey Slope	0.00 0.84
707: Teedown-----	50	Fair Low content of organic matter Stone content Too acid	0.12 0.55 0.95	Poor Low strength Shrink-swell	0.00 0.78	Fair Hard to reclaim Slope	0.12 0.84

Table 20.--Construction materials--Continued

Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
707: Nordicol-----	35	Poor Stone content Low content of organic matter Cobble content Too acid	0.00 0.12 0.50 0.84	Poor Stone content Low strength Cobble content	0.00 0.00 0.02	Poor Hard to reclaim Rock fragments Slope	0.00 0.00 0.84
708: Helmet-----	80	Poor Too clayey Too acid Low content of organic matter	0.00 0.84 0.88	Poor Slope Low strength Shrink-swell	0.00 0.00 0.34	Poor Too clayey Slope	0.00 0.00
709: Teedown-----	85	Fair Low content of organic matter Stone content Too acid	0.12 0.55 0.95	Poor Low strength Shrink-swell	0.00 0.78	Fair Hard to reclaim	0.12
710: Sili-----	50	Fair Too clayey Low content of organic matter	0.08 0.12	Poor Low strength Shrink-swell	0.00 0.87	Fair Too clayey Slope	0.05 0.84
Zigzag-----	30	Poor Droughty Depth to bedrock Too clayey Low content of organic matter	0.00 0.00 0.00 0.12	Poor Low strength Depth to bedrock Shrink-swell	0.00 0.00 0.87	Poor Depth to bedrock Too clayey Slope	0.00 0.00 0.84
711: Sili-----	85	Fair Too clayey Low content of organic matter	0.08 0.12	Poor Low strength Shrink-swell	0.00 0.87	Fair Too clayey Slope	0.05 0.84

Table 20.--Construction materials--Continued

Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
714: Helmet-----	80	Poor Too clayey Too acid Low content of organic matter	0.00 0.84 0.88	Poor Low strength Slope Shrink-swell	0.00 0.08 0.34	Poor Slope Too clayey	0.00 0.00
718: Narraguinnep-----	50	Poor Too clayey Low content of organic matter	0.00 0.88	Poor Low strength Shrink-swell Slope	0.00 0.40 0.82	Poor Too clayey Slope	0.00 0.00
Gladlow-----	40	Poor Too clayey Low content of organic matter	0.00 0.12	Poor Low strength Slope Shrink-swell	0.00 0.82 0.87	Poor Too clayey Slope	0.00 0.00
720: Zigzag-----	45	Poor Droughty Depth to bedrock Too clayey Low content of organic matter	0.00 0.00 0.00 0.12	Poor Depth to bedrock Slope Low strength Shrink-swell	0.00 0.00 0.00 0.87	Poor Slope Depth to bedrock Too clayey	0.00 0.00 0.00
Rock outcrop-----	35	Not rated		Not rated		Not rated	
723: Zigzag-----	50	Poor Droughty Depth to bedrock Too clayey Low content of organic matter	0.00 0.00 0.00 0.12	Poor Depth to bedrock Low strength Slope Shrink-swell	0.00 0.00 0.08 0.87	Poor Slope Depth to bedrock Too clayey	0.00 0.00 0.00
Rock outcrop-----	40	Not rated		Not rated		Not rated	
725: Shawa-----	85	Fair Low content of organic matter	0.88	Poor Low strength Slope	0.00 0.00	Poor Slope Hard to reclaim	0.00 0.02

Table 20.--Construction materials--Continued

Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
727: Teedown-----	50	Fair Low content of organic matter Stone content Too acid	0.12 0.55 0.95	Poor Low strength Slope Shrink-swell	0.00 0.08 0.78	Poor Slope Hard to reclaim	0.00 0.12
Nordicol-----	35	Poor Stone content Low content of organic matter Cobble content Too acid	0.00 0.12 0.50 0.84	Poor Stone content Low strength Cobble content Slope	0.00 0.00 0.02 0.68	Poor Slope Hard to reclaim Rock fragments	0.00 0.00 0.00
730: Baird Hollow-----	35	Fair Too acid Cobble content Low content of organic matter	0.84 0.85 0.88	Poor Low strength Slope Cobble content Shrink-swell	0.00 0.08 0.69 0.96	Poor Hard to reclaim Slope Rock fragments	0.00 0.00 0.97
Nordicol-----	30	Poor Stone content Low content of organic matter Too acid Droughty Cobble content	0.00 0.12 0.84 0.88 0.99	Poor Low strength Stone content Slope Cobble content	0.00 0.00 0.00 0.28	Poor Slope Rock fragments Hard to reclaim	0.00 0.00 0.08
Ryman-----	25	Poor Too clayey Too acid Low content of organic matter	0.00 0.74 0.88	Poor Low strength Slope Shrink-swell	0.00 0.08 0.87	Poor Slope Too clayey Hard to reclaim Rock fragments	0.00 0.00 0.00 0.95
731: Ryman-----	60	Poor Too clayey Too acid Low content of organic matter	0.00 0.74 0.88	Poor Low strength Shrink-swell	0.00 0.87	Poor Too clayey Hard to reclaim Rock fragments	0.00 0.00 0.95

Table 20.--Construction materials--Continued

Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
731: Adel-----	30	Fair Low content of organic matter	0.88	Poor Low strength	0.00	Fair Rock fragments	0.97
732: Adel-----	50	Fair Low content of organic matter	0.88	Poor Low strength Slope	0.00 0.82	Poor Slope Rock fragments	0.00 0.97
Quazar-----	40	Fair Droughty Low content of organic matter Stone content Cobble content	0.04 0.12 0.15 0.86	Poor Low strength Cobble content Stone content Slope	0.00 0.00 0.19 0.68	Poor Slope Hard to reclaim Rock fragments	0.00 0.00 0.00
733: Adel-----	70	Fair Low content of organic matter	0.88	Poor Low strength	0.00	Poor Slope Rock fragments	0.00 0.97
Bucklon-----	20	Poor Droughty Depth to bedrock	0.00 0.00	Poor Low strength Depth to bedrock Slope	0.00 0.00 0.50	Poor Depth to bedrock Slope	0.00 0.00
734: Ryman-----	60	Poor Too clayey Too acid Low content of organic matter	0.00 0.74 0.88	Poor Low strength Shrink-swell	0.00 0.87	Poor Too clayey Hard to reclaim Rock fragments	0.00 0.00 0.95
Clayburn-----	30	Good		Poor Low strength	0.00	Fair Rock fragments	0.97

Table 20.--Construction materials--Continued

Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
740: Cowtown-----	50	Poor Too clayey Low content of organic matter Water erosion Too acid	0.00 0.12 0.90 0.99	Poor Low strength Shrink-swell Slope	0.00 0.28 0.82	Poor Slope Too clayey	0.00 0.00
Scout-----	30	Fair Stone content Low content of organic matter Cobble content Too acid Droughty Water erosion	0.12 0.12 0.13 0.84 0.91 0.99	Poor Cobble content Low strength Stone content Slope	0.00 0.00 0.14 0.82	Poor Slope Hard to reclaim Rock fragments	0.00 0.00 0.00
741: Cowtown-----	45	Poor Too clayey Low content of organic matter Water erosion Too acid	0.00 0.12 0.90 0.99	Poor Slope Low strength Shrink-swell	0.00 0.00 0.28	Poor Too clayey Slope	0.00 0.00
Scout-----	35	Fair Stone content Low content of organic matter Cobble content Too acid Droughty Water erosion	0.12 0.12 0.13 0.84 0.91 0.99	Poor Slope Low strength Cobble content Stone content	0.00 0.00 0.00 0.14	Poor Slope Hard to reclaim Rock fragments	0.00 0.00 0.00
750: Archuleta-----	50	Poor Droughty Depth to bedrock Low content of organic matter Stone content Too clayey	0.00 0.00 0.12 0.70 0.98	Poor Slope Depth to bedrock Low strength Stone content	0.00 0.00 0.00 0.99	Poor Slope Depth to bedrock Too clayey Rock fragments	0.00 0.00 0.57 0.97

Table 20.--Construction materials--Continued

Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
750: Sheek-----	35	Poor Stone content Cobble content Too acid Low content of organic matter	0.00 0.71 0.84 0.88	Poor Slope Cobble content Low strength Stone content	0.00 0.00 0.00 0.00	Poor Hard to reclaim Slope Rock fragments	0.00 0.00 0.00
801: Fughes-----	50	Fair Too clayey Too acid	0.12 0.99	Poor Low strength Slope Shrink-swell	0.00 0.08 0.34	Poor Slope Too clayey	0.00 0.12
Sheek-----	35	Fair Low content of organic matter Cobble content Too clayey	0.12 0.76 0.98	Poor Low strength Cobble content Slope	0.00 0.04 0.08	Poor Slope Hard to reclaim Rock fragments Too clayey	0.00 0.00 0.00 0.57
802: Argiustolls-----	30	Poor Stone content Too clayey Low content of organic matter Too acid	0.00 0.02 0.12 0.84	Poor Slope Low strength Stone content Cobble content Shrink-swell	0.00 0.00 0.00 0.33 0.89	Poor Slope Rock fragments Too clayey	0.00 0.00 0.01
Haplustalfs-----	30	Poor Stone content Too clayey Low content of organic matter Droughty Cobble content	0.00 0.00 0.88 0.94 0.98	Poor Slope Low strength Stone content Cobble content Shrink-swell	0.00 0.00 0.00 0.36 0.87	Poor Too clayey Slope Hard to reclaim Rock fragments	0.00 0.00 0.00 0.00
Rock outcrop-----	25	Not rated		Not rated		Not rated	

Table 20.--Construction materials--Continued

Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
804: Wauquie-----	40	Fair Stone content Low content of organic matter Cobble content	 0.01 0.50 0.99	Poor Slope Low strength Stone content Cobble content	 0.00 0.00 0.03 0.03	Poor Slope Rock fragments Hard to reclaim	 0.00 0.00 0.50
Dolcan-----	25	Poor Droughty Depth to bedrock Low content of organic matter Stone content	 0.00 0.00 0.50 0.99	Poor Depth to bedrock Slope Low strength	 0.00 0.00 0.00	Poor Slope Depth to bedrock Rock fragments	 0.00 0.00 0.03
Rock outcrop-----	20	Not rated		Not rated		Not rated	
805: Shawa-----	50	Fair Low content of organic matter	 0.88	Poor Low strength Slope	 0.00 0.68	Poor Slope Hard to reclaim	 0.00 0.02
Fughes-----	40	Fair Too clayey Too acid Low content of organic matter	 0.12 0.84 0.88	Poor Low strength Shrink-swell Slope	 0.00 0.36 0.68	Poor Slope Too clayey	 0.00 0.09
806: Shawa-----	45	Fair Low content of organic matter	 0.88	Poor Slope Low strength	 0.00 0.00	Poor Slope Hard to reclaim	 0.00 0.02
Fughes-----	35	Fair Too clayey Too acid Low content of organic matter	 0.12 0.84 0.88	Poor Slope Low strength Shrink-swell	 0.00 0.00 0.36	Poor Slope Too clayey	 0.00 0.09

Table 20.--Construction materials--Continued

Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
809: Argiustolls-----	45	Poor Stone content Too clayey Low content of organic matter Too acid	0.00 0.01 0.12 0.84	Poor Low strength Stone content Slope Cobble content Shrink-swell	0.00 0.00 0.00 0.33 0.89	Poor Rock fragments Slope Too clayey	0.00 0.00 0.00
Haplustalfs-----	40	Poor Stone content Too clayey Low content of organic matter Droughty Cobble content	0.00 0.00 0.88 0.94 0.98	Poor Slope Low strength Stone content Cobble content Shrink-swell	0.00 0.00 0.00 0.37 0.87	Poor Slope Hard to reclaim Rock fragments Too clayey	0.00 0.00 0.00 0.00
813: Fughes-----	80	Fair Too clayey Low content of organic matter	0.12 0.88	Poor Low strength Shrink-swell Slope	0.00 0.34 0.82	Poor Slope Too clayey	0.00 0.09
814: Leaps-----	50	Poor Too clayey Low content of organic matter	0.00 0.88	Poor Low strength Shrink-swell	0.00 0.17	Poor Too clayey Slope Rock fragments	0.00 0.00 0.97
Hofly-----	35	Fair Too clayey Low content of organic matter	0.12 0.88	Poor Low strength Shrink-swell	0.00 0.41	Poor Slope Too clayey	0.00 0.12
815: Behanco-----	45	Fair Droughty Too acid	0.42 0.74	Poor Low strength Depth to bedrock Cobble content	0.00 0.29 0.52	Poor Rock fragments Hard to reclaim	0.00 0.08

Table 20.--Construction materials--Continued

Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
815: Powderhorn family---	40	Fair Too acid Low content of organic matter Water erosion	 0.08 0.12 0.99	Poor Low strength Shrink-swell	 0.00 0.71	Fair Too acid	 0.98
816: Storm-----	85	Poor Stone content Low content of organic matter Droughty Too acid	 0.00 0.12 0.69 0.84	Poor Low strength Stone content Slope Cobble content	 0.00 0.00 0.08 0.38	Poor Rock fragments Hard to reclaim Slope	 0.00 0.00 0.00
826: Ute-----	50	Poor Too clayey Too acid	 0.00 0.84	Poor Low strength Depth to saturated zone Shrink-swell	 0.00 0.00 0.57	Poor Too clayey Depth to saturated zone Rock fragments	 0.00 0.00 0.88
Frisco-----	40	Poor Stone content Low content of organic matter Too acid Cobble content Water erosion	 0.00 0.12 0.84 0.96 0.99	Poor Stone content Low strength Cobble content	 0.00 0.00 0.33	Poor Rock fragments Hard to reclaim Slope	 0.00 0.00 0.16
830: Dressel-----	55	Poor Stone content Cobble content Too acid	 0.00 0.82 0.84	Poor Slope Low strength Stone content Cobble content	 0.00 0.00 0.00 0.33	Poor Slope Hard to reclaim Rock fragments	 0.00 0.00 0.00

Table 20.--Construction materials--Continued

Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
830: Jersey-----	30	Poor Stone content Too clayey Low content of organic matter Cobble content Too acid Droughty	0.00 0.01 0.12 0.37 0.84 0.99	Poor Slope Low strength Cobble content Stone content Shrink-swell	0.00 0.00 0.00 0.00 0.90	Poor Slope Hard to reclaim Rock fragments Too clayey	0.00 0.00 0.00 0.00
832: Storm-----	85	Poor Stone content Low content of organic matter Droughty Too acid	0.00 0.12 0.69 0.84	Poor Low strength Stone content Cobble content	0.00 0.00 0.38	Poor Hard to reclaim Rock fragments	0.00 0.00
834: Haycamp-----	60	Poor Too clayey Low content of organic matter Too acid	0.00 0.12 0.84	Poor Slope Low strength Shrink-swell Cobble content	0.00 0.00 0.69 0.92	Poor Slope Too clayey Hard to reclaim Rock fragments	0.00 0.00 0.50 0.88
Jersey-----	25	Poor Stone content Too clayey Low content of organic matter Cobble content Too acid Droughty	0.00 0.01 0.12 0.37 0.84 0.99	Poor Stone content Slope Low strength Cobble content Shrink-swell	0.00 0.00 0.00 0.00 0.90	Poor Slope Hard to reclaim Rock fragments Too clayey	0.00 0.00 0.00 0.00
835: Brumley-----	85	Fair Low content of organic matter Carbonate content Water erosion Too clayey	0.12 0.32 0.90 0.98	Poor Low strength	0.00	Fair Too clayey	0.70

Table 20.--Construction materials--Continued

Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
860: Granath-----	55	Fair Too clayey	0.98	Poor Low strength	0.00	Fair Too clayey	0.76
Nortez-----	30	Fair Too clayey Depth to bedrock Low content of organic matter Droughty	0.02 0.71 0.88 0.97	Poor Depth to bedrock Low strength Shrink-swell	0.00 0.00 0.12	Fair Too clayey Depth to bedrock	0.01 0.71
861: Morapos-----	80	Fair Low content of organic matter Too clayey	0.12 0.98	Poor Low strength	0.00	Fair Too clayey	0.57
862: Granath-----	40	Fair Low content of organic matter Too clayey	0.50 0.98	Poor Low strength	0.00	Fair Too clayey	0.76
Dolores-----	25	Poor Too clayey Stone content Low content of organic matter Droughty Too acid Cobble content	0.00 0.00 0.12 0.67 0.84 0.90	Poor Low strength Stone content Cobble content	0.00 0.00 0.18	Poor Rock fragments Too clayey Hard to reclaim	0.00 0.00 0.00
Fivepine-----	20	Poor Droughty Depth to bedrock Stone content Too clayey	0.00 0.00 0.00 0.76	Poor Low strength Depth to bedrock Stone content Shrink-swell	0.00 0.00 0.00 0.87	Poor Depth to bedrock Rock fragments Too clayey	0.00 0.50 0.66
863: Granath-----	40	Fair Low content of organic matter	0.50	Poor Low strength	0.00	Good	

Table 20.--Construction materials--Continued

Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
863: Ormiston-----	25	Poor Stone content Too clayey Low content of organic matter Carbonate content Droughty	0.00 0.01 0.12 0.54 0.86	Poor Low strength Stone content Depth to bedrock Cobble content Shrink-swell	0.00 0.00 0.12 0.47 0.87	Poor Rock fragments Too clayey Hard to reclaim	0.00 0.00 0.02
Fivepine-----	20	Poor Droughty Depth to bedrock Stone content Too clayey	0.00 0.00 0.00 0.76	Poor Depth to bedrock Low strength Stone content Shrink-swell	0.00 0.00 0.20 0.87	Poor Depth to bedrock Rock fragments Too clayey	0.00 0.50 0.63
890: Tamarron-----	45	Poor Stone content Droughty Too acid Low content of organic matter Water erosion Depth to bedrock	0.00 0.63 0.84 0.88 0.99 0.99	Poor Depth to bedrock Slope Low strength Stone content Cobble content	0.00 0.00 0.00 0.00 0.53	Poor Slope Rock fragments Depth to bedrock	0.00 0.00 0.99
Frisco-----	35	Poor Stone content Low content of organic matter Too acid Cobble content Water erosion	0.00 0.12 0.84 0.96 0.99	Poor Slope Low strength Stone content Cobble content	0.00 0.00 0.00 0.33	Poor Slope Rock fragments Hard to reclaim	0.00 0.00 0.00
891: Tamarron-----	45	Poor Stone content Droughty Too acid Low content of organic matter Water erosion Depth to bedrock	0.00 0.63 0.84 0.88 0.99 0.99	Poor Stone content Depth to bedrock Low strength Slope Cobble content	0.00 0.00 0.00 0.08 0.53	Poor Slope Rock fragments Depth to bedrock	0.00 0.00 0.99

Table 20.--Construction materials--Continued

Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
891: Frisco-----	40	Poor Stone content Low content of organic matter Too acid Cobble content Water erosion	0.00 0.12 0.84 0.96 0.99	Poor Stone content Low strength Slope Cobble content	0.00 0.00 0.08 0.33	Poor Slope Rock fragments Hard to reclaim	0.00 0.00 0.00
901: Granath-----	45	Fair Low content of organic matter Too clayey	0.50 0.98	Poor Low strength	0.00	Fair Too clayey	0.76
Zoltay-----	25	Fair Low content of organic matter Too clayey No stoniness limitation	0.12 0.32 0.99	Poor Low strength Shrink-swell	0.00 0.91	Poor Rock fragments Hard to reclaim Too clayey	0.00 0.00 0.19
Nortez-----	20	Fair Too clayey Depth to bedrock Low content of organic matter Droughty	0.02 0.71 0.88 0.97	Poor Depth to bedrock Low strength Shrink-swell	0.00 0.00 0.12	Fair Too clayey Depth to bedrock	0.01 0.71
903: Anvik-----	85	Fair Low content of organic matter Too acid	0.12 0.84	Poor Low strength Slope	0.00 0.00	Poor Slope	0.00
904: Beje-----	85	Poor Droughty Depth to bedrock Low content of organic matter	0.00 0.00 0.88	Poor Low strength Depth to bedrock	0.00 0.00	Poor Depth to bedrock Slope	0.00 0.04

Table 20.--Construction materials--Continued

Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
905: Cryaquolls-----	95	Fair Low content of organic matter Droughty Too acid	0.50 0.90 0.92	Poor Low strength Depth to saturated zone	0.00 0.00	Poor Rock fragments Depth to saturated zone Hard to reclaim	0.00 0.00 0.12
906: Archuleta-----	80	Poor Droughty Depth to bedrock Low content of organic matter Water erosion	0.00 0.00 0.12 0.99	Poor Depth to bedrock Low strength Slope	0.00 0.00 0.00	Poor Depth to bedrock Slope Rock fragments	0.00 0.00 0.97
907: Archuleta-----	45	Poor Droughty Depth to bedrock Low content of organic matter Water erosion	0.00 0.00 0.12 0.99	Poor Depth to bedrock Low strength Slope	0.00 0.00 0.00	Poor Depth to bedrock Slope Rock fragments	0.00 0.00 0.97
Sanchez-----	30	Poor Stone content Droughty Depth to bedrock Low content of organic matter	0.00 0.00 0.00 0.50	Poor Depth to bedrock Low strength Stone content Slope Cobble content	0.00 0.00 0.00 0.00 0.98	Poor Depth to bedrock Rock fragments Slope	0.00 0.00 0.00
908: Adel-----	85	Fair Low content of organic matter	0.88	Poor Low strength Slope	0.00 0.82	Poor Slope Rock fragments	0.00 0.97
909: Adel-----	90	Fair Low content of organic matter	0.88	Poor Low strength Slope	0.00 0.00	Poor Slope Rock fragments	0.00 0.97

Table 20.--Construction materials--Continued

Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
917: Chris-----	85	Fair Low content of organic matter Stone content Too acid Cobble content	0.12 0.17 0.84 0.96	Poor Low strength Stone content Cobble content Slope	0.00 0.00 0.52 0.92	Poor Hard to reclaim Rock fragments Slope	0.00 0.00 0.00
919: Clayburn-----	90	Fair Low content of organic matter	0.88	Poor Low strength	0.00	Fair Rock fragments	0.97
920: Clayburn-----	85	Good		Poor Low strength Slope Cobble content	0.00 0.98 0.99	Poor Slope Rock fragments	0.00 0.97
926: Ustolls-----	45	Poor Stone content Too clayey Low content of organic matter Cobble content	0.00 0.12 0.12 0.86	Poor Slope Low strength Stone content Cobble content	0.00 0.00 0.00 0.03	Poor Slope Rock fragments Hard to reclaim Too clayey	0.00 0.00 0.00 0.09
Rock outcrop-----	40	Not rated		Not rated		Not rated	
930: Fortlewis-----	45	Poor Too clayey Low content of organic matter Stone content Too acid Droughty Depth to bedrock	0.00 0.12 0.18 0.84 0.99 0.99	Poor Depth to bedrock Low strength Stone content Shrink-swell Slope	0.00 0.00 0.19 0.91 0.98	Poor Too clayey Slope Rock fragments Depth to bedrock	0.00 0.00 0.97 0.99
Rock outcrop-----	35	Not rated		Not rated		Not rated	

Table 20.--Construction materials--Continued

Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
934: Ceek-----	85	Poor Too clayey Low content of organic matter Too acid	0.00 0.12 0.84	Poor Low strength Slope Shrink-swell Cobble content Stone content	0.00 0.00 0.36 0.39 0.99	Poor Too clayey Slope Rock fragments	0.00 0.00 0.88
937: Herm-----	85	Fair Too clayey Low content of organic matter	0.01 0.88	Poor Low strength Shrink-swell Slope	0.00 0.36 0.98	Poor Slope Too clayey	0.00 0.00
939: Ohwiler-----	90	Good		Poor Low strength	0.00	Good	
940: Horsethief-----	85	Poor Stone content Too acid Low content of organic matter Cobble content	0.00 0.74 0.88 0.99	Poor Slope Low strength Stone content Cobble content	0.00 0.00 0.00 0.53	Poor Slope Hard to reclaim Rock fragments	0.00 0.00 0.00
942: Fivepine-----	50	Poor Droughty Depth to bedrock Stone content Too clayey	0.00 0.00 0.00 0.76	Poor Low strength Depth to bedrock Stone content Shrink-swell	0.00 0.00 0.13 0.87	Poor Depth to bedrock Rock fragments Too clayey	0.00 0.50 0.66
Pino-----	35	Poor Too clayey Low content of organic matter Depth to bedrock Too acid	0.00 0.50 0.84 0.84	Poor Depth to bedrock Low strength Shrink-swell	0.00 0.00 0.54	Poor Too clayey Depth to bedrock	0.00 0.84

Table 20.--Construction materials--Continued

Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
945: Nizhoni-----	35	Poor Depth to bedrock Droughty	0.00 0.00	Poor Depth to bedrock Low strength Slope	0.00 0.00 0.00	Poor Depth to bedrock Slope	0.00 0.00
Arabrab-----	30	Poor Depth to bedrock Droughty Low content of organic matter	0.00 0.00 0.12	Poor Depth to bedrock Low strength Shrink-swell	0.00 0.00 0.87	Poor Depth to bedrock Rock fragments	0.00 0.97
Rock outcrop-----	30	Not rated		Not rated		Not rated	
950: Pescar-----	80	Poor Too sandy Low content of organic matter Droughty	0.00 0.12 0.48	Poor Low strength Depth to saturated zone	0.00 0.04	Poor Too sandy Hard to reclaim Rock fragments Depth to saturated zone	0.00 0.00 0.00 0.04
951: Endoaquolls-----	90	Poor Too sandy Low content of organic matter Droughty Cobble content	0.00 0.12 0.53 0.88	Poor Low strength Depth to saturated zone Cobble content	0.00 0.00 0.98	Poor Too sandy Hard to reclaim Rock fragments Depth to saturated zone	0.00 0.00 0.00 0.00
955: Umbarg-----	35	Good		Poor Low strength	0.00	Poor Hard to reclaim	0.00
Winner-----	30	Poor Stone content Too clayey	0.00 0.98	Poor Low strength Depth to saturated zone Stone content	0.00 0.04 0.13	Fair Hard to reclaim Depth to saturated zone Too clayey	0.02 0.04 0.98

Table 20.--Construction materials--Continued

Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
955: Tesaño-----	20	Poor Cobble content Droughty Stone content	 0.00 0.01 0.13	Poor Low strength Cobble content Stone content	 0.00 0.00 0.16	Poor Hard to reclaim Rock fragments	 0.00 0.00
956: Ormiston-----	50	Poor Stone content Too clayey Low content of organic matter Carbonate content Droughty Cobble content	 0.00 0.01 0.12 0.54 0.65 0.92	Poor Low strength Stone content Cobble content Depth to bedrock Shrink-swell	 0.00 0.00 0.08 0.12 0.87	Poor Rock fragments Too clayey Hard to reclaim	 0.00 0.00 0.02
Granath-----	35	Fair Low content of organic matter Too clayey	 0.50 0.98	Poor Low strength	 0.00	Fair Too clayey	 0.76
958: Sheek-----	35	Poor Stone content Cobble content Too acid Too clayey	 0.00 0.42 0.84 0.98	Poor Slope Low strength Stone content Cobble content	 0.00 0.00 0.00 0.00	Poor Slope Rock fragments Hard to reclaim Too clayey	 0.00 0.00 0.00 0.81
Archuleta-----	30	Poor Droughty Depth to bedrock Stone content Too acid Too clayey Low content of organic matter	 0.00 0.00 0.00 0.84 0.88 0.88	Poor Depth to bedrock Slope Low strength Stone content	 0.00 0.00 0.00 0.00	Poor Slope Depth to bedrock Rock fragments Too clayey	 0.00 0.00 0.28 0.63
Rock outcrop-----	20	Not rated		Not rated		Not rated	

Table 20.--Construction materials--Continued

Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
959: Granath-----	90	Fair Low content of organic matter Too clayey	0.50 0.98	Poor Low strength	0.00	Fair Too clayey	0.76
965: Narraguinnep-----	55	Poor Too clayey Low content of organic matter	0.00 0.88	Poor Low strength Shrink-swell	0.00 0.40	Poor Too clayey	0.00
Dapoin-----	30	Poor Too clayey Low content of organic matter	0.00 0.12	Poor Low strength Shrink-swell	0.00 0.85	Poor Too clayey Rock fragments	0.00 0.50
966: Cryaquepts-----	85	Poor Droughty Low content of organic matter Depth to bedrock Too acid Cobble content	0.00 0.12 0.35 0.50 0.75	Poor Low strength Depth to bedrock Depth to saturated zone Cobble content	0.00 0.00 0.01 0.14	Poor Rock fragments Depth to saturated zone Depth to bedrock Too acid	0.00 0.01 0.35 0.88
967: Quazar-----	40	Fair Droughty Low content of organic matter Stone content Cobble content	0.04 0.12 0.15 0.86	Poor Low strength Cobble content Stone content Slope	0.00 0.00 0.19 0.82	Poor Rock fragments Hard to reclaim Slope	0.00 0.00 0.00
Cryaquolls-----	25	Fair Low content of organic matter Droughty Too acid	0.50 0.90 0.92	Poor Low strength Depth to saturated zone	0.00 0.00	Poor Rock fragments Depth to saturated zone Hard to reclaim	0.00 0.00 0.12

Table 20.--Construction materials--Continued

Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
967: Cryochemists-----	20	Fair Too acid	0.74	Poor Low strength Depth to saturated zone	0.00 0.00	Poor Content of organic matter Depth to saturated zone	0.00 0.00
968: Nortez-----	50	Fair Too clayey Depth to bedrock Low content of organic matter Droughty	0.02 0.71 0.88 0.97	Poor Depth to bedrock Low strength Shrink-swell	0.00 0.00 0.12	Fair Too clayey Depth to bedrock	0.01 0.71
Granath-----	35	Fair Low content of organic matter Too clayey	0.50 0.98	Poor Low strength	0.00	Fair Too clayey	0.76
969: Nortez-----	45	Fair Too clayey Depth to bedrock Low content of organic matter Droughty	0.02 0.71 0.88 0.97	Poor Depth to bedrock Low strength Shrink-swell	0.00 0.00 0.12	Fair Too clayey Depth to bedrock	0.01 0.71
Fivepine-----	40	Poor Droughty Depth to bedrock Stone content Too clayey	0.00 0.00 0.00 0.76	Poor Depth to bedrock Low strength Stone content Shrink-swell	0.00 0.00 0.13 0.87	Poor Depth to bedrock Rock fragments Too clayey	0.00 0.50 0.66
972: Pagoda-----	35	Fair Too clayey Too acid Low content of organic matter	0.05 0.84 0.88	Poor Low strength Shrink-swell Slope	0.00 0.20 0.50	Poor Slope Too clayey	0.00 0.04

Table 20.--Construction materials--Continued

Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
972: Coulterg-----	30	Fair Low content of organic matter	0.50	Poor Slope Low strength	0.00 0.00	Poor Slope Rock fragments	0.00 0.97
Wiggler-----	20	Poor Droughty Depth to bedrock Low content of organic matter	0.00 0.00 0.50	Poor Slope Depth to bedrock Low strength	0.00 0.00 0.00	Poor Rock fragments Slope Depth to bedrock	0.00 0.00 0.00
989: Ryman-----	90	Fair Low content of organic matter Too acid	0.12 0.50	Poor Low strength Shrink-swell	0.00 0.95	Poor Hard to reclaim Slope	0.00 0.96
990: Ryman, warm-----	85	Fair Low content of organic matter Too acid Too clayey	0.12 0.50 0.98	Poor Low strength Shrink-swell	0.00 0.87	Poor Hard to reclaim Too clayey Slope	0.00 0.93 0.96
992: Gladlow-----	85	Poor Too clayey Too alkaline Low content of organic matter	0.00 0.00 0.12	Poor Low strength Shrink-swell	0.00 0.87	Poor Too clayey Slope	0.00 0.37
996: Zoltay-----	85	Fair Low content of organic matter Too clayey No stoniness limitation	0.12 0.32 0.99	Poor Low strength Shrink-swell	0.00 0.91	Poor Hard to reclaim Rock fragments Too clayey Slope	0.00 0.00 0.19 0.96

Table 20.--Construction materials--Continued

Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
997: Zigzag-----	40	Poor Droughty Depth to bedrock Too clayey Low content of organic matter	 0.00 0.00 0.01 0.12	Poor Depth to bedrock Low strength Slope Shrink-swell	 0.00 0.00 0.08 0.87	Poor Depth to bedrock Slope Too clayey	 0.00 0.00 0.00
Bodot-----	25	Fair Too clayey Low content of organic matter Depth to bedrock	 0.02 0.12 0.99	Poor Depth to bedrock Low strength Shrink-swell Slope	 0.00 0.00 0.12 0.50	Poor Slope Too clayey Depth to bedrock	 0.00 0.01 0.99
Rock outcrop-----	25	Not rated		Not rated		Not rated	

Table 21.--Water management

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the limitation. See text for further explanation of ratings in this table.)

Map symbol and soil name	Pct. of map unit	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
1: Bradfield-----	45	Somewhat limited Seepage	0.02	Not limited		Very limited No ground water	1.00
Narraguinnep-----	40	Not limited		Somewhat limited Piping	0.08	Very limited No ground water	1.00
2: Hesperus-----	85	Somewhat limited Seepage	0.54	Very limited Piping	1.00	Somewhat limited Depth to water Slow refill Cutbanks cave	0.99 0.96 0.10
10: Lillings-----	85	Somewhat limited Seepage	0.04	Very limited Piping Salinity	1.00 0.12	Very limited No ground water	1.00
12: Shawa-----	80	Somewhat limited Seepage	0.04	Very limited Piping	0.99	Very limited No ground water	1.00
13: Fughes-----	85	Somewhat limited Seepage	0.04	Not limited		Very limited No ground water	1.00
14: Dalmatian-----	35	Very limited Seepage	1.00	Somewhat limited Seepage	0.02	Very limited Cutbanks cave Depth to water	1.00 0.79
Apmay-----	35	Very limited Seepage	1.00	Very limited Depth to saturated zone Seepage	0.99 0.62	Very limited Cutbanks cave Depth to water	1.00 0.01

Table 21.--Water management--Continued

Map symbol and soil name	Pct. of map unit	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
14: Schrader-----	15	Very limited Seepage	1.00	Very limited Depth to saturated zone Seepage	1.00 0.01	Somewhat limited Cutbanks cave	0.10
15: Umbarg-----	80	Somewhat limited Seepage	0.72	Very limited Piping	1.00	Somewhat limited Slow refill Depth to water Cutbanks cave	0.96 0.81 0.10
16: Payter-----	85	Very limited Seepage	1.00	Somewhat limited Seepage	0.02	Very limited No ground water	1.00
17: Fluvaquents-----	55	Very limited Seepage	1.00	Very limited Depth to saturated zone Seepage	1.00 0.31	Very limited Cutbanks cave	1.00
Haplustolls-----	30	Very limited Seepage	1.00	Somewhat limited Seepage	0.35	Very limited No ground water	1.00
18: Endoaquolls-----	45	Very limited Seepage	1.00	Very limited Depth to saturated zone Seepage	1.00 0.64	Very limited Cutbanks cave	1.00
Ustifluvents-----	40	Very limited Seepage	1.00	Somewhat limited Seepage	0.82	Very limited Cutbanks cave Depth to water	1.00 0.79
20: Mavreeso-----	75	Somewhat limited Seepage Slope	0.72 0.08	Very limited Piping	1.00	Very limited No ground water	1.00

Table 21.--Water management--Continued

Map symbol and soil name	Pct. of map unit	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
51: Clayburn-----	55	Somewhat limited Seepage Slope	0.72 0.03	Very limited Piping	0.99	Very limited No ground water	1.00
Hourglass-----	35	Somewhat limited Seepage Slope	0.54 0.03	Somewhat limited Piping	0.90	Very limited No ground water	1.00
52: Ohwiler-----	80	Somewhat limited Seepage Slope	0.72 0.15	Very limited Piping	1.00	Very limited No ground water	1.00
53: Cryaquolls-----	50	Very limited Seepage	1.00	Very limited Depth to saturated zone	1.00	Somewhat limited Cutbanks cave	0.10
Typic Cryaquents----	35	Very limited Seepage	1.00	Very limited Depth to saturated zone Content of large stones	1.00 0.01	Very limited Cutbanks cave Content of large stones	1.00 0.01
54: Quazar-----	90	Somewhat limited Seepage	0.72	Very limited Content of large stones	1.00	Very limited No ground water	1.00
56: Typic Cryaquents----	35	Very limited Seepage	1.00	Very limited Depth to saturated zone Content of large stones	1.00 0.01	Very limited Cutbanks cave Content of large stones	1.00 0.01
Cryaquolls-----	30	Very limited Seepage	1.00	Very limited Depth to saturated zone	1.00	Somewhat limited Cutbanks cave	0.10
Cryofibrists-----	25	Very limited Seepage	1.00	Not rated		Somewhat limited Cutbanks cave	0.10

Table 21.--Water management--Continued

Map symbol and soil name	Pct. of map unit	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
57: Howardsville-----	80	Very limited Seepage	1.00	Very limited Content of large stones Seepage	1.00 0.12	Very limited No ground water	1.00
58: Fughes-----	55	Somewhat limited Seepage Slope	0.04 0.03	Somewhat limited Piping	0.01	Very limited No ground water	1.00
Herm-----	35	Somewhat limited Slope Seepage	0.03 0.02	Somewhat limited Piping	0.19	Very limited No ground water	1.00
59: Fughes-----	45	Somewhat limited Seepage Slope	0.72 0.72	Somewhat limited Piping	0.05	Very limited No ground water	1.00
Herm-----	35	Somewhat limited Slope Seepage	0.72 0.02	Somewhat limited Piping	0.15	Very limited No ground water	1.00
60: Grimes-----	90	Very limited Seepage	1.00	Very limited Content of large stones Seepage	0.99 0.79	Very limited No ground water	1.00
110: Sheek-----	45	Somewhat limited Seepage Slope	0.72 0.08	Very limited Piping Content of large stones	0.99 0.47	Very limited No ground water	1.00
Ormiston-----	35	Somewhat limited Depth to bedrock Seepage	0.29 0.04	Very limited Content of large stones Piping Thin layer	0.99 0.71 0.29	Very limited No ground water	1.00

Table 21.--Water management--Continued

Map symbol and soil name	Pct. of map unit	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
111: Fardraw-----	80	Not limited		Somewhat limited Content of large stones	0.71	Very limited No ground water	1.00
113: Dolores-----	80	Somewhat limited Slope	0.99	Very limited Content of large stones Seepage	1.00 0.06	Very limited No ground water	1.00
150: Silex-----	70	Very limited Depth to bedrock Slope	1.00 0.03	Very limited Thin layer	1.00	Very limited No ground water	1.00
Rock outcrop-----	20	Very limited Depth to bedrock Slope	1.00 0.03	Not rated		Not rated	
151: Frisco-----	80	Somewhat limited Seepage Slope	0.72 0.08	Very limited Content of large stones	0.99	Very limited No ground water	1.00
152: Frisco-----	80	Somewhat limited Seepage Slope	0.72 0.72	Very limited Content of large stones	0.99	Very limited No ground water	1.00
153: Frisco-----	50	Somewhat limited Seepage Slope	0.72 0.12	Very limited Content of large stones	0.99	Very limited No ground water	1.00
Horsethief-----	30	Very limited Seepage Slope	1.00 0.12	Not limited		Very limited No ground water	1.00
154: Frisco-----	60	Very limited Slope Seepage	1.00 0.72	Very limited Content of large stones	0.99	Very limited No ground water	1.00

Table 21.--Water management--Continued

Map symbol and soil name	Pct. of map unit	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
154: Horsethief-----	25	Very limited Seepage Slope	1.00 1.00	Not limited		Very limited No ground water	1.00
155: Tuckerville-----	70	Very limited Seepage Slope	1.00 0.97	Very limited Content of large stones Seepage	1.00 0.19	Very limited No ground water	1.00
Rock outcrop-----	20	Very limited Slope Depth to bedrock	1.00 1.00	Not rated		Not rated	
156: Sponsor-----	60	Somewhat limited Slope Seepage	0.21 0.04	Somewhat limited Piping	0.96	Very limited No ground water	1.00
Tuckerville-----	30	Very limited Seepage Slope	1.00 0.21	Very limited Content of large stones Seepage	0.99 0.03	Very limited No ground water	1.00
157: Sponsor-----	60	Somewhat limited Slope Seepage	0.21 0.04	Somewhat limited Piping	0.96	Very limited No ground water	1.00
Tuckerville-----	30	Very limited Seepage Slope	1.00 0.21	Very limited Content of large stones Seepage	0.99 0.03	Very limited No ground water	1.00

Table 21.--Water management--Continued

Map symbol and soil name	Pct. of map unit	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
158: Sponsor-----	60	Somewhat limited Slope Seepage	0.82 0.04	Somewhat limited Piping	0.96	Very limited No ground water	1.00
Tuckerville-----	30	Very limited Seepage Slope	1.00 0.97	Very limited Content of large stones Seepage	0.99 0.03	Very limited No ground water	1.00
159: Tuckerville-----	80	Very limited Seepage Slope	1.00 0.72	Very limited Content of large stones Seepage	1.00 0.06	Very limited No ground water	1.00
160: Anvik-----	40	Very limited Seepage Slope	1.00 0.41	Very limited Piping	1.00	Very limited No ground water	1.00
Tuckerville-----	35	Very limited Seepage Slope	1.00 0.41	Very limited Content of large stones Seepage	0.99 0.06	Very limited No ground water	1.00
161: Needleton-----	85	Somewhat limited Seepage	0.72	Very limited Content of large stones	1.00	Very limited No ground water	1.00
162: Quazar-----	45	Somewhat limited Slope Seepage	0.88 0.72	Somewhat limited Content of large stones Seepage	0.99 0.69	Very limited No ground water	1.00
Varden-----	40	Very limited Seepage Slope	1.00 0.88	Very limited Content of large stones Seepage	1.00 0.56	Very limited No ground water	1.00

Table 21.--Water management--Continued

Map symbol and soil name	Pct. of map unit	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
163: Clayburn-----	50	Somewhat limited Seepage Slope	0.70 0.10	Very limited Piping	0.99	Very limited No ground water	1.00
Hourglass-----	35	Somewhat limited Seepage Slope	0.57 0.10	Somewhat limited Piping	0.90	Very limited No ground water	1.00
164: Hourglass-----	50	Somewhat limited Slope Seepage	0.97 0.57	Somewhat limited Piping	0.90	Very limited No ground water	1.00
Bucklon-----	25	Somewhat limited Slope Depth to bedrock	0.97 0.78	Very limited Thin layer Piping	1.00 1.00	Very limited No ground water	1.00
Wander-----	15	Somewhat limited Slope Seepage	0.97 0.05	Very limited Content of large stones	1.00	Very limited No ground water	1.00
165: Pinacol-----	85	Somewhat limited Seepage	0.01	Very limited Content of large stones Piping	1.00 0.45	Very limited No ground water	1.00
166: Pinacol-----	80	Somewhat limited Slope Seepage	0.45 0.02	Very limited Content of large stones Piping	1.00 0.45	Very limited No ground water	1.00
250: Snowdon-----	55	Somewhat limited Depth to bedrock Slope Seepage	0.99 0.99 0.72	Very limited Content of large stones Thin layer Seepage	1.00 0.99 0.03	Very limited No ground water	1.00

Table 21.--Water management--Continued

Map symbol and soil name	Pct. of map unit	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
250: Rock outcrop-----	25	Very limited Depth to bedrock Slope	1.00 0.99	Not rated		Not rated	
251: Rock outcrop-----	60	Very limited Depth to bedrock Slope	1.00 1.00	Not rated		Not rated	
Snowdon-----	25	Very limited Slope Depth to bedrock Seepage	1.00 0.99 0.72	Very limited Content of large stones Thin layer Seepage	1.00 0.99 0.03	Very limited No ground water	1.00
254: Typic Cryorthents---	50	Very limited Slope Seepage	1.00 1.00	Very limited Content of large stones Seepage	1.00 0.12	Very limited No ground water	1.00
Rubble land-----	30	Very limited Seepage Slope	1.00 1.00	Very limited Content of large stones Seepage	1.00 1.00	Very limited No ground water	1.00
330: Needleton-----	85	Somewhat limited Seepage Slope	0.72 0.10	Very limited Content of large stones	1.00	Very limited No ground water	1.00
331: Needleton-----	80	Somewhat limited Slope Seepage	0.99 0.72	Very limited Content of large stones	1.00	Very limited No ground water	1.00
332: Horsethief-----	55	Very limited Seepage Slope	1.00 0.97	Very limited Content of large stones	1.00	Very limited No ground water	1.00

Table 21.--Water management--Continued

Map symbol and soil name	Pct. of map unit	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
332: Needleton-----	35	Somewhat limited Slope Seepage	0.97 0.72	Very limited Content of large stones	1.00	Very limited No ground water	1.00
333: Henson, south aspect-----	85	Somewhat limited Seepage Slope	0.72 0.10	Very limited Content of large stones Seepage	1.00 0.03	Very limited No ground water	1.00
334: Henson, south Aspect-----	80	Somewhat limited Slope Seepage	0.97 0.72	Very limited Content of large stones Seepage	1.00 0.03	Very limited No ground water	1.00
335: Whitecross-----	55	Very limited Depth to bedrock Slope	1.00 0.50	Very limited Thin layer Content of large stones Seepage	1.00 1.00 0.03	Very limited No ground water	1.00
Rock outcrop-----	30	Very limited Depth to bedrock Slope	1.00 0.50	Not rated		Not rated	
336: Whitecross, south aspect-----	50	Very limited Depth to bedrock Slope	1.00 1.00	Very limited Thin layer Content of large stones Seepage	1.00 1.00 0.03	Very limited No ground water	1.00
Rock outcrop-----	25	Very limited Depth to bedrock Slope	1.00 1.00	Not rated		Not rated	

Table 21.--Water management--Continued

Map symbol and soil name	Pct. of map unit	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
337: Whitcross-----	60	Very limited Depth to bedrock Slope	1.00 1.00	Very limited Thin layer Content of large stones Seepage	1.00 1.00 0.03	Very limited No ground water	1.00
Rock outcrop-----	25	Very limited Depth to bedrock Slope	1.00 1.00	Not rated		Not rated	
338: Henson-----	80	Somewhat limited Seepage Slope	0.72 0.10	Very limited Content of large stones Seepage	1.00 0.03	Very limited No ground water	1.00
339: Henson-----	80	Somewhat limited Slope Seepage	0.97 0.72	Very limited Content of large stones Seepage	1.00 0.03	Very limited No ground water	1.00
340: Moran-----	80	Very limited Seepage Slope	1.00 0.10	Very limited Content of large stones	0.99	Very limited No ground water	1.00
341: Moran-----	80	Very limited Seepage Slope	1.00 0.99	Very limited Content of large stones	0.99	Very limited No ground water	1.00
342: Telluride-----	60	Very limited Depth to bedrock Slope	1.00 0.50	Very limited Thin layer Content of large stones	1.00 0.43	Very limited No ground water	1.00
Rock outcrop-----	20	Very limited Depth to bedrock Slope	1.00 0.50	Not rated		Not rated	

Table 21.--Water management--Continued

Map symbol and soil name	Pct. of map unit	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
343: Telluride-----	60	Very limited Depth to bedrock Slope	1.00 1.00	Very limited Thin layer Content of large stones	1.00 0.43	Very limited No ground water	1.00
Rock outcrop-----	25	Very limited Depth to bedrock Slope	1.00 1.00	Not rated		Not rated	
345: Papaspila-----	85	Somewhat limited Seepage	0.72	Very limited Piping Content of large stones	1.00 0.07	Very limited No ground water	1.00
350: Flygare-----	45	Somewhat limited Seepage	0.72	Very limited Content of large stones Seepage	1.00 0.06	Very limited No ground water	1.00
Foidel-----	40	Somewhat limited Seepage	0.72	Very limited Piping	1.00	Very limited No ground water	1.00
355: Flygare-----	45	Somewhat limited Seepage Slope	0.72 0.21	Very limited Content of large stones Seepage	1.00 0.06	Very limited No ground water	1.00
Foidel-----	40	Somewhat limited Seepage Slope	0.72 0.21	Very limited Piping	1.00	Very limited No ground water	1.00
360: Blacksnag-----	45	Somewhat limited Seepage	0.72	Very limited Content of large stones	1.00	Very limited No ground water	1.00
Peeler-----	40	Somewhat limited Seepage	0.72	Very limited Piping	1.00	Very limited No ground water	1.00

Table 21.--Water management--Continued

Map symbol and soil name	Pct. of map unit	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
361: Blacksnag-----	45	Somewhat limited Seepage Slope	0.72 0.21	Very limited Content of large stones	1.00	Very limited No ground water	1.00
Peeler-----	40	Somewhat limited Seepage Slope	0.72 0.21	Very limited Piping	1.00	Very limited No ground water	1.00
374: Mavreeso-----	35	Very limited Slope Seepage	1.00 0.72	Very limited Piping	1.00	Very limited No ground water	1.00
Valto-----	30	Very limited Depth to bedrock Slope	1.00 1.00	Very limited Thin layer Content of large stones	1.00 1.00	Very limited No ground water	1.00
Rock outcrop-----	20	Very limited Depth to bedrock Slope	1.00 1.00	Not rated		Not rated	
375: Needleton-----	55	Somewhat limited Seepage	0.72	Very limited Content of large stones	1.00	Very limited No ground water	1.00
Snowdon-----	30	Somewhat limited Depth to bedrock Seepage	0.99 0.72	Very limited Content of large stones Thin layer Seepage	1.00 0.99 0.03	Very limited No ground water	1.00
376: Needleton-----	80	Somewhat limited Seepage Slope	0.72 0.21	Somewhat limited Content of large stones	0.58	Very limited No ground water	1.00
378: Needleton-----	65	Somewhat limited Slope Seepage	0.97 0.72	Somewhat limited Content of large stones	0.58	Very limited No ground water	1.00

Table 21.--Water management--Continued

Map symbol and soil name	Pct. of map unit	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
378: Haviland-----	25	Somewhat limited Slope Seepage	0.97 0.54	Very limited Piping	1.00	Very limited No ground water	1.00
380: Snowdon-----	50	Somewhat limited Depth to bedrock Seepage Slope	0.99 0.72 0.12	Very limited Thin layer Content of large stones Seepage	0.99 0.99 0.03	Very limited No ground water	1.00
Rock outcrop-----	35	Very limited Depth to bedrock Slope	1.00 0.12	Not rated		Not rated	
381: Needleton-----	45	Very limited Slope Seepage	1.00 0.72	Very limited Content of large stones	1.00	Very limited No ground water	1.00
Snowdon-----	30	Very limited Slope Depth to bedrock Seepage	1.00 0.99 0.72	Very limited Content of large stones Thin layer Seepage	1.00 0.99 0.04	Very limited No ground water	1.00
Rock outcrop-----	15	Very limited Depth to bedrock Slope	1.00 1.00	Not rated		Not rated	
382: Needleton-----	50	Somewhat limited Seepage Slope	0.72 0.21	Very limited Content of large stones	1.00	Very limited No ground water	1.00
Snowdon-----	30	Somewhat limited Depth to bedrock Seepage Slope	0.99 0.72 0.21	Very limited Content of large stones Thin layer Seepage	1.00 0.99 0.03	Very limited No ground water	1.00

Table 21.--Water management--Continued

Map symbol and soil name	Pct. of map unit	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
383: Haviland-----	50	Somewhat limited Seepage Slope	0.54 0.12	Very limited Piping	1.00	Very limited No ground water	1.00
Needleton-----	35	Somewhat limited Seepage Slope	0.72 0.12	Very limited Content of large stones	1.00	Very limited No ground water	1.00
386: Needleton-----	70	Very limited Slope Seepage	1.00 0.72	Very limited Content of large stones	1.00	Very limited No ground water	1.00
387: Frisco-----	50	Somewhat limited Slope Seepage	0.97 0.72	Very limited Content of large stones	1.00	Very limited No ground water	1.00
Quazar-----	40	Somewhat limited Slope Seepage	0.97 0.72	Somewhat limited Content of large stones Seepage	0.97 0.69	Very limited No ground water	1.00
388: Frisco-----	50	Somewhat limited Seepage Slope	0.72 0.21	Very limited Content of large stones	1.00	Very limited No ground water	1.00
Quazar-----	45	Somewhat limited Seepage Slope	0.72 0.21	Somewhat limited Content of large stones Seepage	0.97 0.69	Very limited No ground water	1.00
389: Seitz-----	85	Somewhat limited Slope Seepage	0.12 0.04	Very limited Content of large stones	1.00	Very limited No ground water	1.00
390: Clayburn-----	40	Somewhat limited Slope Seepage	0.97 0.72	Very limited Piping	0.99	Very limited No ground water	1.00

Table 21.--Water management--Continued

Map symbol and soil name	Pct. of map unit	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
390: Heisspitz-----	30	Very limited Depth to bedrock Slope	1.00 0.97	Very limited Thin layer Piping	1.00 1.00	Very limited No ground water	1.00
391: Runlett-----	50	Somewhat limited Depth to bedrock Slope	0.93 0.08	Somewhat limited Piping Thin layer	0.98 0.93	Very limited No ground water	1.00
Sessions-----	30	Somewhat limited Slope Seepage	0.08 0.04	Somewhat limited Piping	0.70	Very limited No ground water	1.00
392: Runlett-----	30	Somewhat limited Depth to bedrock Slope	0.93 0.50	Somewhat limited Piping Thin layer	0.98 0.94	Very limited No ground water	1.00
Needleton-----	30	Somewhat limited Seepage Slope	0.72 0.50	Somewhat limited Content of large stones	0.58	Very limited No ground water	1.00
Sessions-----	20	Somewhat limited Slope Seepage	0.50 0.04	Somewhat limited Piping	0.70	Very limited No ground water	1.00
393: Heisspitz-----	50	Very limited Depth to bedrock	1.00	Very limited Thin layer Piping	1.00 1.00	Very limited No ground water	1.00
Sessions-----	25	Somewhat limited Seepage	0.04	Somewhat limited Piping	0.70	Very limited No ground water	1.00
Rock outcrop-----	20	Very limited Depth to bedrock	1.00	Not rated		Not rated	
394: Clayburn-----	55	Somewhat limited Seepage Slope	0.72 0.21	Very limited Piping	0.99	Very limited No ground water	1.00

Table 21.--Water management--Continued

Map symbol and soil name	Pct. of map unit	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
394: Heisspitz-----	30	Very limited Depth to bedrock Slope	1.00 0.21	Very limited Thin layer Piping	1.00 1.00	Very limited No ground water	1.00
395: Scout-----	85	Very limited Seepage Slope	1.00 0.10	Very limited Content of large stones	1.00	Very limited No ground water	1.00
396: Scout-----	85	Very limited Seepage Slope	1.00 0.97	Very limited Content of large stones	1.00	Very limited No ground water	1.00
399: Kite-----	40	Very limited Depth to bedrock Slope	1.00 0.21	Very limited Thin layer Seepage	1.00 0.04	Very limited No ground water	1.00
Rock outcrop-----	35	Very limited Depth to bedrock Slope	1.00 0.21	Not rated		Not rated	
450: Lostlake-----	45	Very limited Depth to bedrock Slope	1.00 1.00	Very limited Thin layer	1.00	Very limited No ground water	1.00
Rock outcrop-----	35	Very limited Depth to bedrock Slope	1.00 1.00	Not rated		Not rated	
452: Dystrocryepts-----	55	Very limited Depth to bedrock Slope	1.00 0.21	Very limited Thin layer	1.00	Very limited No ground water	1.00
Rock outcrop-----	35	Very limited Depth to bedrock Slope	1.00 0.21	Not rated		Not rated	

Table 21.--Water management--Continued

Map symbol and soil name	Pct. of map unit	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
453: Sig-----	40	Very limited Depth to bedrock Slope	1.00 0.50	Very limited Thin layer Seepage	1.00 0.12	Very limited No ground water	1.00
Rock outcrop-----	30	Very limited Depth to bedrock Slope	1.00 0.50	Not rated		Not rated	
Snowdon-----	20	Somewhat limited Depth to bedrock Seepage Slope	0.99 0.72 0.50	Very limited Content of large stones Thin layer Seepage	1.00 0.99 0.03	Very limited No ground water	1.00
454: Snowdon-----	35	Somewhat limited Depth to bedrock Seepage Slope	0.99 0.72 0.50	Very limited Content of large stones Thin layer Seepage	1.00 0.99 0.03	Very limited No ground water	1.00
Sig-----	30	Very limited Depth to bedrock Slope	1.00 0.50	Very limited Thin layer Seepage	1.00 0.12	Very limited No ground water	1.00
Rock outcrop-----	25	Very limited Depth to bedrock Slope	1.00 0.50	Not rated		Not rated	
493: Badland-----	90	Very limited Depth to bedrock Slope	1.00 1.00	Not rated		Not rated	
494: Pits, gravel-----	100	Not rated		Very limited Content of large stones Seepage	1.00 0.03	Very limited No ground water	1.00

Table 21.--Water management--Continued

Map symbol and soil name	Pct. of map unit	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
495: Riverwash-----	85	Very limited Seepage	1.00	Very limited Depth to saturated zone Seepage	1.00 0.93	Very limited Cutbanks cave	1.00
496: Rock outcrop-----	70	Very limited Depth to bedrock Slope	1.00 1.00	Not rated		Not rated	
497: Rubble land-----	80	Very limited Seepage Slope	1.00 1.00	Very limited Content of large stones Seepage	1.00 1.00	Very limited No ground water	1.00
498: Slickens-----	80	Very limited Seepage Slope	1.00 0.34	Very limited Piping Seepage	1.00 0.23	Very limited No ground water	1.00
499: Water-----	100	Not rated		Not rated		Not rated	
500: Dolores-----	50	Not limited		Very limited Content of large stones Seepage	1.00 0.06	Very limited No ground water	1.00
Fivepine-----	35	Very limited Depth to bedrock	1.00	Very limited Thin layer Content of large stones Piping	1.00 0.32 0.25	Very limited No ground water	1.00
501: Fivepine-----	60	Very limited Depth to bedrock	1.00	Very limited Thin layer Piping Content of large stones	1.00 0.40 0.32	Very limited No ground water	1.00

Table 21.--Water management--Continued

Map symbol and soil name	Pct. of map unit	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
501: Nortez-----	25	Somewhat limited Depth to bedrock	0.81	Somewhat limited Thin layer Hard to pack	0.81 0.20	Very limited No ground water	1.00
503: Ormiston-----	50	Somewhat limited Depth to bedrock Seepage	0.29 0.04	Very limited Content of large stones Piping Thin layer	1.00 0.71 0.29	Very limited No ground water	1.00
Fivepine-----	35	Very limited Depth to bedrock	1.00	Very limited Thin layer Piping Content of large stones	1.00 0.40 0.32	Very limited No ground water	1.00
504: Jemco-----	40	Somewhat limited Seepage Depth to bedrock	0.72 0.52	Very limited Piping Thin layer	1.00 0.52	Very limited No ground water	1.00
Detra-----	30	Somewhat limited Seepage Depth to bedrock	0.72 0.01	Very limited Piping Thin layer	1.00 0.01	Very limited No ground water	1.00
Beje-----	20	Very limited Depth to bedrock	1.00	Very limited Thin layer Piping	1.00 1.00	Very limited No ground water	1.00
505: Moento-----	80	Very limited Seepage Depth to bedrock	1.00 0.66	Somewhat limited Piping Thin layer Seepage	0.88 0.66 0.01	Very limited No ground water	1.00
506: Moento-----	35	Very limited Seepage Depth to bedrock	1.00 0.66	Somewhat limited Piping Thin layer Seepage	0.76 0.66 0.01	Very limited No ground water	1.00

Table 21.--Water management--Continued

Map symbol and soil name	Pct. of map unit	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
506: Detra-----	30	Somewhat limited Seepage Depth to bedrock	0.72 0.01	Very limited Piping Thin layer	1.00 0.01	Very limited No ground water	1.00
Jemco-----	20	Somewhat limited Seepage Depth to bedrock	0.72 0.52	Very limited Piping Thin layer	1.00 0.52	Very limited No ground water	1.00
508: Herm-----	50	Somewhat limited Seepage	0.02	Somewhat limited Piping	0.19	Very limited No ground water	1.00
Pagoda-----	35	Somewhat limited Seepage	0.04	Somewhat limited Piping	0.36	Very limited No ground water	1.00
509: Burnson, dry-----	80	Somewhat limited Depth to bedrock	0.29	Somewhat limited Thin layer Piping	0.29 0.24	Very limited No ground water	1.00
510: Jemco-----	60	Somewhat limited Seepage Depth to bedrock	0.72 0.52	Very limited Piping Thin layer	1.00 0.52	Very limited No ground water	1.00
Moento-----	25	Very limited Seepage Depth to bedrock	1.00 0.66	Somewhat limited Piping Thin layer Seepage	0.89 0.66 0.01	Very limited No ground water	1.00
511: Granath-----	50	Somewhat limited Seepage	0.54	Somewhat limited Piping	0.99	Very limited No ground water	1.00
Fughes-----	35	Somewhat limited Seepage	0.04	Somewhat limited Piping	0.08	Very limited No ground water	1.00
512: Wetherill-----	85	Somewhat limited Seepage	0.72	Very limited Piping	1.00	Very limited No ground water	1.00

Table 21.--Water management--Continued

Map symbol and soil name	Pct. of map unit	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
513: Maudrey-----	50	Somewhat limited Seepage	0.72	Somewhat limited Piping	0.14	Very limited No ground water	1.00
Tombac-----	35	Not limited		Somewhat limited Piping	0.56	Very limited No ground water	1.00
525: Arabrab-----	85	Very limited Depth to bedrock	1.00	Very limited Thin layer Piping	1.00 1.00	Very limited No ground water	1.00
526: Lonecone-----	80	Somewhat limited Seepage Depth to bedrock	0.72 0.11	Very limited Piping Thin layer	1.00 0.86	Very limited No ground water	1.00
527: Ormiston-----	50	Somewhat limited Depth to bedrock Seepage Slope	0.29 0.04 0.03	Very limited Content of large stones Thin layer Piping	1.00 0.29 0.01	Very limited No ground water	1.00
Beje-----	35	Very limited Depth to bedrock Slope	1.00 0.08	Very limited Thin layer Piping	1.00 1.00	Very limited No ground water	1.00
552: Burnson-----	80	Somewhat limited Depth to bedrock	0.29	Somewhat limited Thin layer Piping	0.29 0.24	Very limited No ground water	1.00
553: Burnson-----	50	Somewhat limited Depth to bedrock Slope	0.29 0.21	Somewhat limited Thin layer Piping	0.29 0.12	Very limited No ground water	1.00
Herm-----	30	Somewhat limited Slope Seepage	0.21 0.02	Somewhat limited Piping	0.12	Very limited No ground water	1.00

Table 21.--Water management--Continued

Map symbol and soil name	Pct. of map unit	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
571: Mancos-----	40	Somewhat limited Depth to bedrock Seepage	0.74 0.72	Somewhat limited Thin layer Piping	0.74 0.34	Very limited No ground water	1.00
Skisams-----	35	Very limited Depth to bedrock	1.00	Very limited Thin layer Piping	1.00 1.00	Very limited No ground water	1.00
Skutum-----	20	Somewhat limited Seepage Depth to bedrock	0.54 0.01	Somewhat limited Piping Thin layer	0.89 0.04	Very limited No ground water	1.00
572: Sudduth-----	85	Somewhat limited Seepage	0.04	Not limited		Very limited Cutbanks cave Slow refill Depth to water	1.00 1.00 0.96
600: Valto-----	50	Very limited Depth to bedrock Slope	1.00 0.82	Very limited Thin layer Content of large stones	1.00 1.00	Very limited No ground water	1.00
Rock outcrop-----	35	Very limited Depth to bedrock Slope	1.00 0.82	Not rated		Not rated	
601: Weminuche-----	85	Very limited Slope Seepage	1.00 1.00	Very limited Piping	1.00	Very limited No ground water	1.00
602: Weminuche-----	85	Very limited Seepage Slope	1.00 0.08	Very limited Piping	1.00	Very limited No ground water	1.00
603: Weminuche-----	55	Very limited Seepage Slope	1.00 0.82	Very limited Piping	1.00	Very limited No ground water	1.00

Table 21.--Water management--Continued

Map symbol and soil name	Pct. of map unit	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
603: Anvik-----	25	Very limited Seepage Slope	1.00 0.82	Very limited Piping	1.00	Very limited No ground water	1.00
605: Nordicol-----	80	Very limited Seepage Slope	1.00 0.04	Very limited Content of large stones Seepage	1.00 0.03	Very limited No ground water	1.00
606: Snowdon-----	50	Very limited Slope Depth to bedrock Seepage	1.00 0.99 0.72	Very limited Content of large stones Thin layer Seepage	1.00 0.99 0.03	Very limited No ground water	1.00
Needleton-----	35	Very limited Slope Seepage	1.00 0.72	Very limited Content of large stones	1.00	Very limited No ground water	1.00
607: Graysill-----	45	Somewhat limited Slope Depth to bedrock Seepage	0.97 0.61 0.04	Very limited Piping Thin layer	1.00 0.61	Very limited No ground water	1.00
Scotch-----	35	Very limited Depth to bedrock Slope	1.00 0.97	Very limited Thin layer Piping	1.00 1.00	Very limited No ground water	1.00
608: Scotch-----	45	Very limited Depth to bedrock Slope	1.00 0.97	Very limited Thin layer Piping	1.00 1.00	Very limited No ground water	1.00
Graysill-----	35	Somewhat limited Slope Depth to bedrock Seepage	0.97 0.61 0.04	Very limited Piping Thin layer	1.00 0.61	Very limited No ground water	1.00

Table 21.--Water management--Continued

Map symbol and soil name	Pct. of map unit	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
609: Hourglass-----	50	Somewhat limited Slope Seepage	0.08 0.04	Somewhat limited Piping	0.90	Very limited No ground water	1.00
Wander-----	35	Somewhat limited Slope Seepage	0.08 0.05	Very limited Content of large stones	1.00	Very limited No ground water	1.00
610: Wander-----	45	Somewhat limited Slope Seepage	0.97 0.05	Very limited Content of large stones	1.00	Very limited No ground water	1.00
Hotter-----	30	Very limited Depth to bedrock Slope	1.00 0.97	Very limited Thin layer Content of large stones Seepage	1.00 1.00 0.03	Very limited No ground water	1.00
Hourglass-----	15	Somewhat limited Slope Seepage	0.97 0.72	Somewhat limited Piping	0.90	Very limited No ground water	1.00
611: Goldbug-----	85	Very limited Seepage Slope	1.00 0.08	Very limited Content of large stones Seepage	1.00 0.02	Very limited No ground water	1.00
612: Haviland-----	50	Somewhat limited Seepage Slope	0.54 0.08	Not limited		Very limited No ground water	1.00
Graysill-----	35	Somewhat limited Depth to bedrock Slope Seepage	0.61 0.08 0.04	Very limited Piping Thin layer	1.00 0.61	Very limited No ground water	1.00

Table 21.--Water management--Continued

Map symbol and soil name	Pct. of map unit	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
615: Haviland-----	75	Somewhat limited Slope Seepage	0.97 0.54	Not limited		Very limited No ground water	1.00
616: Fortlewis-----	85	Somewhat limited Depth to bedrock	0.52	Somewhat limited Piping Thin layer	0.79 0.52	Very limited No ground water	1.00
617: Shawa-----	85	Somewhat limited Seepage Slope	0.04 0.01	Very limited Piping	0.99	Very limited No ground water	1.00
618: Nordicol-----	50	Very limited Seepage Slope	1.00 1.00	Very limited Content of large stones Seepage	1.00 0.03	Very limited No ground water	1.00
Valto-----	35	Very limited Depth to bedrock Slope	1.00 0.80	Very limited Thin layer Content of large stones	1.00 1.00	Very limited No ground water	1.00
619: Nordicol-----	80	Very limited Slope Seepage	1.00 1.00	Very limited Content of large stones	1.00	Very limited No ground water	1.00
620: Caviness-----	90	Somewhat limited Seepage Slope Depth to bedrock	0.72 0.21 0.01	Somewhat limited Piping Content of large stones Thin layer	0.85 0.04 0.01	Very limited No ground water	1.00
621: Granturk-----	85	Very limited Depth to bedrock Slope	1.00 0.03	Very limited Thin layer Piping Seepage	1.00 1.00 0.12	Very limited No ground water	1.00

Table 21.--Water management--Continued

Map symbol and soil name	Pct. of map unit	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
622: Granturk-----	60	Very limited Depth to bedrock Slope	1.00 0.94	Very limited Thin layer Piping Seepage	1.00 1.00 0.12	Very limited No ground water	1.00
Rock outcrop-----	30	Very limited Depth to bedrock Slope	1.00 0.94	Not rated		Not rated	
623: Chris-----	50	Somewhat limited Slope Seepage	0.72 0.54	Not limited		Very limited No ground water	1.00
Nordicol-----	40	Very limited Seepage Slope	1.00 0.21	Very limited Content of large stones Seepage	1.00 0.03	Very limited No ground water	1.00
699: Haplocryolls-----	40	Somewhat limited Slope Seepage	0.72 0.54	Very limited Content of large stones	1.00	Very limited No ground water	1.00
Rubble land-----	40	Very limited Seepage Slope	1.00 0.72	Very limited Content of large stones Seepage	1.00 1.00	Very limited No ground water	1.00
700: Bradfield-----	90	Somewhat limited Seepage	0.02	Not limited		Very limited No ground water	1.00
703: Narraguinnep-----	80	Somewhat limited Slope	0.59	Somewhat limited Piping	0.08	Very limited No ground water	1.00
704: Gladlow-----	30	Not limited		Somewhat limited Piping	0.37	Very limited No ground water	1.00

Table 21.--Water management--Continued

Map symbol and soil name	Pct. of map unit	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
704: Rock outcrop-----	30	Very limited Depth to bedrock	1.00	Not rated		Not rated	
Ruko-----	20	Somewhat limited Depth to bedrock	0.80	Very limited Thin layer Piping	1.00 0.23	Very limited No ground water	1.00
705: Helmet-----	80	Somewhat limited Seepage	0.04	Somewhat limited Piping	0.01	Very limited No ground water	1.00
706: Narraguinnep-----	85	Not limited		Somewhat limited Piping	0.08	Very limited No ground water	1.00
707: Teedown-----	50	Somewhat limited Seepage	0.72	Somewhat limited Piping	0.52	Very limited No ground water	1.00
Nordicol-----	35	Very limited Seepage	1.00	Very limited Content of large stones	1.00	Very limited No ground water	1.00
708: Helmet-----	80	Somewhat limited Slope Seepage	0.97 0.04	Somewhat limited Piping	0.01	Very limited No ground water	1.00
709: Teedown-----	85	Somewhat limited Seepage	0.72	Somewhat limited Piping	0.52	Very limited No ground water	1.00
710: Sili-----	50	Somewhat limited Seepage	0.04	Somewhat limited Piping	0.12	Very limited No ground water	1.00
Zigzag-----	30	Somewhat limited Depth to bedrock	0.78	Very limited Thin layer Piping	1.00 0.22	Very limited No ground water	1.00

Table 21.--Water management--Continued

Map symbol and soil name	Pct. of map unit	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
711: Sili-----	85	Somewhat limited Seepage	0.04	Somewhat limited Piping	0.12	Very limited No ground water	1.00
714: Helmet-----	80	Somewhat limited Slope Seepage	0.21 0.04	Somewhat limited Piping	0.02	Very limited No ground water	1.00
718: Narraguinnep-----	50	Somewhat limited Slope	0.08	Somewhat limited Piping	0.08	Very limited No ground water	1.00
Gladlow-----	40	Somewhat limited Slope	0.08	Somewhat limited Piping	0.34	Very limited No ground water	1.00
720: Zigzag-----	45	Very limited Slope Depth to bedrock	1.00 0.78	Very limited Thin layer Piping	1.00 0.22	Very limited No ground water	1.00
Rock outcrop-----	35	Very limited Depth to bedrock Slope	1.00 1.00	Not rated		Not rated	
723: Zigzag-----	50	Somewhat limited Depth to bedrock Slope	0.78 0.21	Very limited Thin layer Piping	1.00 0.22	Very limited No ground water	1.00
Rock outcrop-----	40	Very limited Depth to bedrock Slope	1.00 0.21	Not rated		Not rated	
725: Shawa-----	85	Somewhat limited Slope Seepage	0.28 0.04	Very limited Piping	0.99	Very limited No ground water	1.00
727: Teedown-----	50	Somewhat limited Seepage Slope	0.72 0.21	Somewhat limited Piping	0.52	Very limited No ground water	1.00

Table 21.--Water management--Continued

Map symbol and soil name	Pct. of map unit	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
727: Nordicol-----	35	Very limited Seepage Slope	1.00 0.10	Very limited Content of large stones	1.00	Very limited No ground water	1.00
730: Baird Hollow-----	35	Somewhat limited Seepage Slope	0.72 0.21	Somewhat limited Piping Content of large stones	0.83 0.01	Very limited No ground water	1.00
Nordicol-----	30	Very limited Seepage Slope	1.00 0.28	Very limited Content of large stones Seepage	1.00 0.03	Very limited No ground water	1.00
Ryman-----	25	Somewhat limited Slope	0.21	Somewhat limited Piping	0.33	Very limited No ground water	1.00
731: Ryman-----	60	Not limited		Somewhat limited Piping	0.33	Very limited No ground water	1.00
Adel-----	30	Somewhat limited Seepage	0.72	Very limited Piping	1.00	Very limited No ground water	1.00
732: Adel-----	50	Somewhat limited Seepage Slope	0.72 0.08	Very limited Piping	1.00	Very limited No ground water	1.00
Quazar-----	40	Somewhat limited Seepage Slope	0.72 0.10	Somewhat limited Content of large stones Seepage	0.97 0.69	Very limited No ground water	1.00
733: Adel-----	70	Somewhat limited Seepage Slope	0.72 0.03	Very limited Piping	1.00	Very limited No ground water	1.00

Table 21.--Water management--Continued

Map symbol and soil name	Pct. of map unit	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
733: Bucklon-----	20	Somewhat limited Depth to bedrock Slope	0.78 0.12	Very limited Thin layer Piping	1.00 1.00	Very limited No ground water	1.00
734: Ryman-----	60	Not limited		Somewhat limited Piping	0.33	Very limited No ground water	1.00
Clayburn-----	30	Somewhat limited Seepage	0.72	Very limited Piping	0.99	Very limited No ground water	1.00
740: Cowtown-----	50	Somewhat limited Slope	0.08	Somewhat limited Piping	0.23	Very limited No ground water	1.00
Scout-----	30	Very limited Seepage Slope	1.00 0.08	Very limited Content of large stones	1.00	Very limited No ground water	1.00
741: Cowtown-----	45	Somewhat limited Slope	0.97	Somewhat limited Piping	0.23	Very limited No ground water	1.00
Scout-----	35	Very limited Seepage Slope	1.00 0.97	Very limited Content of large stones	1.00	Very limited No ground water	1.00
750: Archuleta-----	50	Somewhat limited Slope Depth to bedrock	0.85 0.61	Very limited Thin layer Piping	1.00 0.88	Very limited No ground water	1.00
Sheek-----	35	Somewhat limited Slope Seepage	0.85 0.04	Very limited Content of large stones	1.00	Very limited No ground water	1.00
801: Fughes-----	50	Somewhat limited Slope Seepage	0.21 0.04	Somewhat limited Piping	0.08	Very limited No ground water	1.00

Table 21.--Water management--Continued

Map symbol and soil name	Pct. of map unit	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
801: Sheek-----	35	Somewhat limited Seepage Slope	0.72 0.21	Very limited Piping Content of large stones	0.99 0.47	Very limited No ground water	1.00
802: Argiustolls-----	30	Very limited Slope Seepage	1.00 0.04	Very limited Content of large stones	1.00	Very limited No ground water	1.00
Haplustalfs-----	30	Very limited Slope Seepage	1.00 0.02	Very limited Content of large stones Piping	1.00 0.04	Very limited No ground water	1.00
Rock outcrop-----	25	Very limited Depth to bedrock Slope	1.00 1.00	Not rated		Not rated	
804: Wauquie-----	40	Somewhat limited Slope Seepage	0.88 0.72	Somewhat limited Content of large stones	0.95	Very limited No ground water	1.00
Dolcan-----	25	Very limited Slope Depth to bedrock	1.00 0.61	Very limited Thin layer Piping Content of large stones	1.00 0.99 0.01	Very limited No ground water	1.00
Rock outcrop-----	20	Very limited Depth to bedrock Slope	1.00 1.00	Not rated		Not rated	
805: Shawa-----	50	Somewhat limited Slope Seepage	0.10 0.04	Very limited Piping	0.99	Very limited No ground water	1.00
Fughes-----	40	Somewhat limited Slope Seepage	0.10 0.04	Somewhat limited Piping	0.01	Very limited No ground water	1.00

Table 21.--Water management--Continued

Map symbol and soil name	Pct. of map unit	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
806: Shawa-----	45	Somewhat limited Slope Seepage	0.97 0.04	Very limited Piping	0.99	Very limited No ground water	1.00
Fughes-----	35	Somewhat limited Slope Seepage	0.97 0.04	Somewhat limited Piping	0.01	Very limited No ground water	1.00
809: Argiustolls-----	45	Very limited Slope Seepage	1.00 0.04	Very limited Content of large stones	1.00	Very limited No ground water	1.00
Haplustalfs-----	40	Very limited Slope Seepage	1.00 0.02	Very limited Content of large stones Piping	1.00 0.04	Very limited No ground water	1.00
813: Fughes-----	80	Somewhat limited Slope Seepage	0.08 0.04	Somewhat limited Piping	0.01	Very limited No ground water	1.00
814: Leaps-----	50	Somewhat limited Slope	0.03	Not limited		Very limited No ground water	1.00
Hofly-----	35	Somewhat limited Slope	0.03	Somewhat limited Piping	0.12	Very limited No ground water	1.00
815: Behanco-----	45	Very limited Seepage Depth to bedrock	1.00 0.01	Somewhat limited Thin layer	0.19	Very limited No ground water	1.00
Powderhorn family---	40	Somewhat limited Seepage	0.72	Not limited		Very limited No ground water	1.00

Table 21.--Water management--Continued

Map symbol and soil name	Pct. of map unit	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
815: Storm-----	85	Somewhat limited Seepage Slope	0.72 0.21	Very limited Content of large stones Seepage	1.00 0.69	Very limited No ground water	1.00
826: Ute-----	50	Somewhat limited Seepage	0.54	Very limited Depth to saturated zone Piping	1.00 0.39	Somewhat limited Slow refill Cutbanks cave	0.46 0.10
Frisco-----	40	Somewhat limited Seepage Slope	0.72 0.01	Very limited Content of large stones	0.99	Very limited No ground water	1.00
830: Dressel-----	55	Very limited Slope Seepage	1.00 0.72	Somewhat limited Content of large stones	0.90	Very limited No ground water	1.00
Jersey-----	30	Very limited Slope	1.00	Very limited Content of large stones	1.00	Very limited No ground water	1.00
832: Storm-----	85	Somewhat limited Seepage	0.72	Very limited Content of large stones Seepage	1.00 0.69	Very limited No ground water	1.00
834: Haycamp-----	60	Very limited Slope	1.00	Not limited		Very limited No ground water	1.00
Jersey-----	25	Very limited Slope	1.00	Very limited Content of large stones	1.00	Very limited No ground water	1.00
835: Brumley-----	85	Somewhat limited Seepage	0.72	Somewhat limited Piping	0.98	Very limited No ground water	1.00

Table 21.--Water management--Continued

Map symbol and soil name	Pct. of map unit	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
860: Granath-----	55	Somewhat limited Seepage	0.54	Somewhat limited Piping	0.99	Very limited No ground water	1.00
Nortez-----	30	Somewhat limited Depth to bedrock	0.81	Somewhat limited Thin layer Hard to pack	0.81 0.20	Very limited No ground water	1.00
861: Morapos-----	80	Somewhat limited Seepage	0.04	Somewhat limited Piping	0.74	Very limited No ground water	1.00
862: Granath-----	40	Somewhat limited Seepage	0.54	Somewhat limited Piping	0.99	Very limited No ground water	1.00
Dolores-----	25	Not limited		Very limited Content of large stones Seepage	1.00 0.06	Very limited No ground water	1.00
Fivepine-----	20	Very limited Depth to bedrock	1.00	Very limited Thin layer Content of large stones Piping	1.00 0.32 0.25	Very limited No ground water	1.00
863: Granath-----	40	Somewhat limited Seepage	0.54	Somewhat limited Piping	0.99	Very limited No ground water	1.00
Ormiston-----	25	Somewhat limited Depth to bedrock Seepage	0.29 0.04	Very limited Content of large stones Thin layer Piping	1.00 0.29 0.01	Very limited No ground water	1.00
Fivepine-----	20	Very limited Depth to bedrock	1.00	Very limited Thin layer Piping Content of large stones	1.00 0.40 0.32	Very limited No ground water	1.00

Table 21.--Water management--Continued

Map symbol and soil name	Pct. of map unit	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
890: Tamarron-----	45	Somewhat limited Slope Seepage Depth to bedrock	0.97 0.72 0.01	Somewhat limited Content of large stones Thin layer	0.93 0.52	Very limited No ground water	1.00
Frisco-----	35	Somewhat limited Slope Seepage	0.97 0.72	Very limited Content of large stones	0.99	Very limited No ground water	1.00
891: Tamarron-----	45	Somewhat limited Seepage Slope Depth to bedrock	0.72 0.21 0.01	Somewhat limited Content of large stones Thin layer	0.93 0.52	Very limited No ground water	1.00
Frisco-----	40	Somewhat limited Seepage Slope	0.72 0.21	Very limited Content of large stones	0.99	Very limited No ground water	1.00
901: Granath-----	45	Somewhat limited Seepage	0.54	Somewhat limited Piping	0.99	Very limited No ground water	1.00
Zoltay-----	25	Somewhat limited Seepage	0.02	Somewhat limited Piping	0.49	Very limited No ground water	1.00
Nortez-----	20	Somewhat limited Depth to bedrock	0.81	Somewhat limited Thin layer Hard to pack	0.81 0.20	Very limited No ground water	1.00
903: Anvik-----	85	Very limited Seepage Slope	1.00 0.45	Very limited Piping	1.00	Very limited No ground water	1.00
904: Beje-----	85	Very limited Depth to bedrock Slope	1.00 0.02	Very limited Thin layer	1.00	Very limited No ground water	1.00

Table 21.--Water management--Continued

Map symbol and soil name	Pct. of map unit	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
905: Cryaquolls-----	95	Very limited Seepage	1.00	Very limited Depth to saturated zone	1.00	Somewhat limited Cutbanks cave	0.10
906: Archuleta-----	80	Somewhat limited Slope Depth to bedrock	0.85 0.61	Very limited Thin layer Piping	1.00 1.00	Very limited No ground water	1.00
907: Archuleta-----	45	Somewhat limited Slope Depth to bedrock	0.85 0.63	Very limited Thin layer Piping	1.00 1.00	Very limited No ground water	1.00
Sanchez-----	30	Very limited Depth to bedrock Slope	1.00 0.45	Very limited Thin layer Content of large stones	1.00 1.00	Very limited No ground water	1.00
908: Adel-----	85	Somewhat limited Seepage Slope	0.72 0.08	Very limited Piping	1.00	Very limited No ground water	1.00
909: Adel-----	90	Somewhat limited Seepage Slope	0.72 0.64	Very limited Piping	1.00	Very limited No ground water	1.00
917: Chris-----	85	Somewhat limited Seepage Slope	0.54 0.06	Somewhat limited Content of large stones	0.73	Very limited No ground water	1.00
919: Clayburn-----	90	Somewhat limited Seepage	0.72	Very limited Piping	1.00	Very limited No ground water	1.00
920: Clayburn-----	85	Somewhat limited Seepage Slope	0.72 0.04	Very limited Piping	1.00	Very limited No ground water	1.00

Table 21.--Water management--Continued

Map symbol and soil name	Pct. of map unit	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
926: Ustolls-----	45	Very limited Slope Seepage	1.00 0.04	Very limited Content of large stones Piping	1.00 0.46	Very limited No ground water	1.00
Rock outcrop-----	40	Very limited Depth to bedrock Slope	1.00 1.00	Not rated		Not rated	
930: Fortlewis-----	45	Somewhat limited Depth to bedrock Slope	0.52 0.04	Somewhat limited Piping Thin layer	0.79 0.52	Very limited No ground water	1.00
Rock outcrop-----	35	Very limited Depth to bedrock Slope	1.00 0.04	Not rated		Not rated	
934: Ceek-----	85	Somewhat limited Slope	0.28	Somewhat limited Content of large stones Piping	0.16 0.01	Very limited No ground water	1.00
937: Herm-----	85	Somewhat limited Slope Seepage	0.04 0.02	Somewhat limited Piping	0.19	Very limited No ground water	1.00
939: Ohwiler-----	90	Somewhat limited Seepage	0.72	Very limited Piping	1.00	Very limited No ground water	1.00
940: Horsethief-----	85	Very limited Seepage Slope	1.00 0.94	Very limited Content of large stones Seepage	1.00 0.01	Very limited No ground water	1.00

Table 21.--Water management--Continued

Map symbol and soil name	Pct. of map unit	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
942: Fivepine-----	50	Very limited Depth to bedrock	1.00	Very limited Thin layer Piping Content of large stones	1.00 0.31 0.06	Very limited No ground water	1.00
Pino-----	35	Somewhat limited Depth to bedrock Seepage	0.74 0.04	Somewhat limited Thin layer Piping	0.74 0.23	Very limited No ground water	1.00
945: Nizhoni-----	35	Very limited Depth to bedrock Slope	1.00 0.32	Very limited Thin layer Seepage	1.00 0.03	Very limited No ground water	1.00
Arabrab-----	30	Very limited Depth to bedrock	1.00	Very limited Thin layer Piping	1.00 1.00	Very limited No ground water	1.00
Rock outcrop-----	30	Very limited Depth to bedrock Slope	1.00 0.32	Not rated		Not rated	
950: Pescar-----	80	Very limited Seepage	1.00	Very limited Depth to saturated zone Seepage	1.00 0.82	Very limited Cutbanks cave	1.00
951: Endoaquolls-----	90	Very limited Seepage	1.00	Very limited Depth to saturated zone Seepage	1.00 0.64	Very limited Cutbanks cave	1.00
955: Umbarg-----	35	Somewhat limited Seepage	0.72	Very limited Piping Seepage	1.00 0.06	Very limited Cutbanks cave Depth to water Slow refill	1.00 0.79 0.28

Table 21.--Water management--Continued

Map symbol and soil name	Pct. of map unit	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
955: Winner-----	30	Somewhat limited Seepage	0.72	Very limited Depth to saturated zone	1.00	Somewhat limited Slow refill Cutbanks cave	0.28 0.10
Tesajo-----	20	Very limited Seepage	1.00	Very limited Content of large stones Seepage	1.00 0.03	Very limited No ground water	1.00
956: Ormiston-----	50	Somewhat limited Depth to bedrock Seepage	0.29 0.04	Very limited Content of large stones Thin layer	1.00 0.29	Very limited No ground water	1.00
Granath-----	35	Somewhat limited Seepage	0.54	Somewhat limited Piping	0.99	Very limited No ground water	1.00
958: Sheek-----	35	Very limited Slope Seepage	1.00 0.04	Very limited Content of large stones	1.00	Very limited No ground water	1.00
Archuleta-----	30	Very limited Slope Depth to bedrock	1.00 0.53	Very limited Thin layer Content of large stones	1.00 0.93	Very limited No ground water	1.00
Rock outcrop-----	20	Very limited Depth to bedrock Slope	1.00 1.00	Not rated		Not rated	
959: Granath-----	90	Somewhat limited Seepage	0.54	Somewhat limited Piping	0.99	Very limited No ground water	1.00
965: Narraguinnep-----	55	Not limited		Somewhat limited Piping	0.08	Very limited No ground water	1.00
Dapoin-----	30	Somewhat limited Seepage	0.04	Somewhat limited Piping	0.33	Very limited No ground water	1.00

Table 21.--Water management--Continued

Map symbol and soil name	Pct. of map unit	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
966: Cryaquepts-----	85	Somewhat limited Depth to bedrock Seepage	0.91 0.72	Very limited Depth to saturated zone Thin layer Content of large stones	1.00 0.91 0.25	Very limited Depth to hard bedrock Slow refill Content of large stones Cutbanks cave	1.00 0.28 0.25 0.10
967: Quazar-----	40	Somewhat limited Seepage Slope	0.72 0.08	Somewhat limited Content of large stones Seepage	0.97 0.69	Very limited No ground water	1.00
Cryaquolls-----	25	Very limited Seepage	1.00	Very limited Depth to saturated zone	1.00	Somewhat limited Cutbanks cave	0.10
Cryohemists-----	20	Very limited Seepage	1.00	Very limited Depth to saturated zone	1.00	Very limited Cutbanks cave	1.00
968: Nortez-----	50	Somewhat limited Depth to bedrock	0.81	Somewhat limited Thin layer Hard to pack	0.81 0.20	Very limited No ground water	1.00
Granath-----	35	Somewhat limited Seepage	0.54	Somewhat limited Piping	0.99	Very limited No ground water	1.00
969: Nortez-----	45	Somewhat limited Depth to bedrock	0.81	Somewhat limited Thin layer Hard to pack	0.81 0.20	Very limited No ground water	1.00
Fivepine-----	40	Very limited Depth to bedrock	1.00	Very limited Thin layer Piping Content of large stones	1.00 0.25 0.06	Very limited No ground water	1.00

Table 21.--Water management--Continued

Map symbol and soil name	Pct. of map unit	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
972: Pagoda-----	35	Somewhat limited Slope Seepage	0.12 0.02	Somewhat limited Piping	0.60	Very limited No ground water	1.00
Coulterg-----	30	Somewhat limited Seepage Slope	0.72 0.50	Very limited Piping	1.00	Very limited No ground water	1.00
Wiggler-----	20	Somewhat limited Slope Depth to bedrock	0.88 0.84	Very limited Thin layer	1.00	Very limited No ground water	1.00
989: Ryman-----	90	Not limited		Somewhat limited Piping	0.62	Very limited No ground water	1.00
990: Ryman, warm-----	85	Not limited		Somewhat limited Piping	0.38	Very limited No ground water	1.00
992: Gladlow-----	85	Somewhat limited Slope	0.01	Somewhat limited Piping	0.41	Very limited No ground water	1.00
996: Zoltay-----	85	Somewhat limited Seepage	0.02	Somewhat limited Piping	0.59	Very limited No ground water	1.00
997: Zigzag-----	40	Somewhat limited Depth to bedrock Slope	0.66 0.21	Very limited Thin layer Piping	1.00 0.40	Very limited No ground water	1.00
Bodot-----	25	Somewhat limited Slope Depth to bedrock	0.12 0.02	Somewhat limited Thin layer Piping	0.58 0.01	Very limited No ground water	1.00
Rock outcrop-----	25	Very limited Depth to bedrock Slope	1.00 0.21	Not rated		Not rated	

Table 22.--Classification of the soils

(An asterisk in the first column indicates a taxadjunct to the series. See text for a description of those characteristics that are outside the range of the series.)

Soil name	Family or higher taxonomic class
Adel-----	Fine-loamy, mixed, superactive Pachic Haplocryolls
Anvik-----	Fine-loamy, mixed, superactive Alfic Argicryolls
*Apmay-----	Coarse-loamy, mixed, superactive, frigid Aquic Cumulic Haplustolls
Arabrab-----	Loamy, mixed, superactive, mesic Lithic Haplustalfs
Archuleta-----	Loamy, mixed, superactive, frigid, shallow Typic Haplustepts
Argiustolls-----	Argiustolls
Baird Hollow-----	Clayey-skeletal, smectitic Pachic Palecryolls
Behanco-----	Loamy-skeletal, mixed, superactive Pachic Haplocryolls
Beje-----	Loamy, mixed, superactive, frigid Lithic Argiustolls
Blacksnag-----	Loamy-skeletal, mixed, superactive Typic Dystrocryepts
*Bodot-----	Fine, smectitic, mesic Torreritic Haplustepts
Bradfield-----	Fine, smectitic, frigid Udic Haplusterts
Brumley-----	Fine-loamy, mixed, superactive, mesic Calcic Haplustalfs
Bucklon-----	Loamy, mixed, superactive, shallow Typic Haplocryolls
Burnson-----	Fine, smectitic, frigid Typic Haplustalfs
Caviness-----	Fine, smectitic Umbric Palecryalfs
Ceek-----	Clayey-skeletal, smectitic, frigid Inceptic Haplustalfs
Chris-----	Clayey-skeletal, smectitic Eutric Glossocryalfs
Clayburn-----	Fine-loamy, mixed, superactive Pachic Argicryolls
Coulterg-----	Fine-loamy, mixed, superactive, frigid Entic Haplustolls
Cowtown-----	Fine, smectitic Umbric Haplocryalfs
Cryaquepts-----	Cryaquepts
Cryaquolls-----	Cryaquolls
Cryofibrists-----	Cryofibrists
Cryochemists-----	Cryochemists
Dalmatian-----	Fine-loamy, mixed, superactive, frigid Cumulic Haplustolls
Dapoin-----	Fine, smectitic, frigid Vertic Haplustolls
Detra-----	Fine-loamy, mixed, superactive, frigid Pachic Argiustolls
Dolcan-----	Loamy, mixed, superactive, calcareous, mesic, shallow Aridic Ustorthents
Dolores-----	Clayey-skeletal, smectitic, frigid Typic Paleustalfs
Dressel-----	Loamy-skeletal, mixed, superactive Pachic Haplocryolls
Dystrocryepts-----	Dystrocryepts
Endoaquolls-----	Endoaquolls
Fardraw-----	Clayey-skeletal, smectitic, frigid Typic Argiustolls
Fivepine-----	Clayey, smectitic, frigid Lithic Argiustolls
Fluvaquents-----	Fluvaquents
Flygare-----	Loamy-skeletal, mixed, superactive Pachic Palecryolls
Foidel-----	Fine-loamy, mixed, superactive Pachic Palecryolls
Fortlewis-----	Fine, smectitic, frigid Typic Haplustalfs
Frisco-----	Loamy-skeletal, mixed, superactive Eutric Haplocryalfs
Fughes-----	Fine, smectitic, frigid Pachic Argiustolls
Gladlow-----	Fine, smectitic, frigid Vertic Haplustepts
Goldbug-----	Fine, smectitic, frigid Typic Haplustalfs
Granath-----	Fine-silty, mixed, superactive, frigid Typic Argiustolls
Granturk-----	Loamy, isotic Lithic Dystrocryepts
Graysill-----	Fine-loamy, mixed, superactive Eutric Haplocryalfs
Grimes-----	Sandy-skeletal, mixed, frigid Udic Haplustepts
Haplocryolls-----	Haplocryolls
Haplustalfs-----	Haplustalfs
Haplustolls-----	Haplustolls
Haviland-----	Fine-loamy, mixed, superactive Eutric Haplocryalfs
Haycamp-----	Fine, smectitic Typic Eutrocryepts
Heisspitz-----	Loamy, mixed, superactive Lithic Haplocryolls
Helmet-----	Fine, smectitic Vertic Argicryolls
Henson-----	Loamy-skeletal, isotic Typic Dystrocryepts
Herm-----	Fine, smectitic, frigid Typic Argiustolls
Hesperus-----	Fine-loamy, mixed, superactive, frigid Pachic Argiustolls
Hofly-----	Fine, smectitic Pachic Haplocryolls
Horsethief-----	Loamy-skeletal, mixed, superactive Typic Palecryalfs
Hotter-----	Loamy-skeletal, mixed, superactive Lithic Eutrocryepts
Hourglass-----	Fine-loamy, mixed, superactive Typic Argicryolls

Table 22.--Classification of the soils--Continued

Soil name	Family or higher taxonomic class
Howardsville-----	Sandy-skeletal, mixed Ustic Eutrocrepts
Jemco-----	Fine-loamy, mixed, superactive, frigid Typic Haplustalfs
Jersey-----	Clayey-skeletal, smectitic Typic Haplocryolls
Kite-----	Loamy, mixed, superactive Humic Lithic Dystricrepts
Leaps-----	Fine, smectitic Vertic Haplocryolls
Lillings-----	Fine-silty, mixed, superactive, calcareous, mesic Ustic Torrifluvents
Lonecone-----	Fine-loamy, mixed, superactive, frigid Pachic Haplustolls
Lostlake-----	Loamy, isotic Lithic Dystricrepts
Mancos-----	Fine, smectitic Pachic Argicryolls
Maudrey-----	Fine, smectitic, frigid Pachic Paleustolls
Mavreeso-----	Fine-loamy, mixed, superactive, frigid Entic Haplustolls
Moento-----	Fine-loamy, mixed, superactive, frigid Typic Argiustolls
*Moran-----	Loamy-skeletal, isotic Humic Dystricrepts
Morapos-----	Fine, smectitic, frigid Typic Argiustolls
Narraguinnep-----	Fine, smectitic, frigid Vertic Haplustolls
Needleton-----	Loamy-skeletal, mixed, superactive Eutric Haplocryalfs
*Nizhoni-----	Loamy, mixed, superactive, calcareous, mesic Lithic Ustorthents
*Nordicol-----	Loamy-skeletal, mixed, superactive Pachic Palecryolls
*Nordicol-----	Loamy-skeletal, mixed, superactive Typic Palecryolls
Nortez-----	Fine, smectitic, frigid Typic Argiustolls
Ohwiler-----	Fine-loamy, mixed, superactive, frigid Pachic Argiustolls
Ormiston-----	Clayey-skeletal, smectitic, frigid Calcic Haplustalfs
Pagoda-----	Fine, smectitic, frigid Vertic Argiustolls
Papasbila-----	Loamy-skeletal, mixed, superactive Pachic Haplocryolls
Payter-----	Coarse-loamy, mixed, superactive, mesic Cumulic Haplustolls
*Peeler-----	Fine-loamy, mixed, superactive Mollic Haplocryalfs
Pescar-----	Coarse-loamy over sandy or sandy-skeletal, mixed, superactive, calcareous, frigid Aquic Ustifluvents
Pinacol-----	Clayey-skeletal, smectitic, frigid Typic Haplustalfs
Pino-----	Fine, mixed, superactive, frigid Typic Argiustolls
Powderhorn family-----	Fine, smectitic Alfic Argicryolls
Quazar-----	Loamy-skeletal, mixed, superactive Typic Argicryolls
Ruko-----	Clayey, smectitic, frigid, shallow Typic Haplustepts
Runlett-----	Fine, smectitic Pachic Argicryolls
Ryman-----	Fine, smectitic Pachic Haplocryolls
Sanchez-----	Loamy-skeletal, mixed, superactive, frigid Lithic Haplustalfs
Schrader-----	Coarse-loamy, mixed, superactive, frigid Cumulic Endoaquolls
Scotch-----	Loamy, mixed, superactive Lithic Haplocryalfs
*Scout-----	Loamy-skeletal, mixed, superactive Typic Eutrocrepts
*Seitz-----	Clayey-skeletal, smectitic Typic Haplocryalfs
*Sessions-----	Fine, smectitic Typic Argicryolls
Shawa-----	Fine-loamy, mixed, superactive, frigid Pachic Haplustolls
Sheek-----	Loamy-skeletal, mixed, superactive, frigid Typic Haplustalfs
Sig-----	Loamy-skeletal, mixed, superactive Lithic Dystricrepts
Silex-----	Loamy, mixed, superactive Lithic Haplocryalfs
Sili-----	Fine, smectitic, mesic Aridic Haplustepts
Skisams-----	Loamy, mixed, superactive Lithic Haplocryolls
Skutum-----	Fine, smectitic Pachic Argicryolls
Snowdon-----	Loamy-skeletal, mixed, superactive Lithic Haplocryalfs
Sponsor-----	Fine-loamy, mixed, superactive Typic Argicryolls
Storm-----	Loamy-skeletal, mixed, superactive Typic Eutrocrepts
Sudduth-----	Fine, smectitic Vertic Argicryolls
Tamarron-----	Loamy-skeletal, mixed, superactive Eutric Haplocryalfs
Teedown-----	Fine, smectitic Pachic Argicryolls
Telluride-----	Loamy-skeletal, isotic Humic Lithic Dystricrepts
Tesajo-----	Loamy-skeletal, mixed, superactive, mesic Cumulic Haplustolls
Tombac-----	Fine, smectitic, frigid Typic Paleustolls
Tuckerville-----	Loamy-skeletal, mixed, superactive Ustic Glossocryalfs
*Tuckerville-----	Loamy-skeletal, mixed, superactive Eutric Glossocryalfs
Typic Cryaquents-----	Typic Cryaquents
Typic Cryorthents-----	Typic Cryorthents
Umbarg-----	Fine-loamy, mixed, superactive, mesic Cumulic Haplustolls
Ustifluvents-----	Ustifluvents
Ustolls-----	Ustolls
Ute-----	Fine, smectitic Argic Cryaquolls
Valto-----	Loamy-skeletal, mixed, superactive, frigid Lithic Haplustepts

Table 22.--Classification of the soils--Continued

Soil name	Family or higher taxonomic class
Varden-----	Loamy-skeletal over fragmental, mixed, superactive Typic Haplocryolls
Wander-----	Loamy-skeletal, mixed, superactive Typic Argicryolls
Wauquie-----	Loamy-skeletal, mixed, superactive, mesic Aridic Haplustalfs
Weminuche-----	Fine-loamy, mixed, superactive Ustic Haplocryalfs
Wetherill-----	Fine-silty, mixed, superactive, mesic Aridic Haplustalfs
Whitecross-----	Loamy-skeletal, isotic Lithic Dystrocryepts
Wiggler-----	Loamy, mixed, superactive, calcareous, frigid, shallow Typic Ustorthents
Winner-----	Fine-loamy, mixed, superactive, calcareous, mesic Cumulic Endoaquolls
Zigzag-----	Clayey, smectitic, calcareous, mesic, shallow Aridic Ustorthents
Zoltay-----	Fine, smectitic, frigid Pachic Argiustolls

Table 23.--Engineering index properties

(Absence of an entry indicates that the data were not estimated.)

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
					Pct.	Pct.						
	In.											
1: Bradfield-----	0-7	Clay loam	CL	A-6	0	0-5	90-100	85-100	75-95	60-90	30-40	10-20
	7-15	Clay loam, clay	CH, CL	A-6, A-7	0	0	95-100	85-100	85-95	70-90	35-60	15-35
	15-28	Clay loam, clay	CH, CL	A-6, A-7	0	0	95-100	85-100	85-95	65-95	35-65	15-40
	28-36	Clay loam, clay	CH, CL	A-6, A-7	0	0	95-100	85-100	85-95	65-90	35-65	15-40
	36-60	Clay loam, clay	CL	A-6, A-7	0	0	95-100	85-100	85-95	70-90	35-50	15-25
Narraguinnep----	0-6	Clay loam	CL	A-6	0	0	90-100	80-100	75-95	60-80	30-40	10-20
	6-17	Clay, clay loam	CL	A-6, A-7	0	0	90-100	80-100	75-95	60-90	35-50	15-25
	17-23	Clay, clay loam	CL	A-6, A-7	0	0	90-100	80-100	75-95	60-90	35-50	15-25
	23-30	Silty clay loam, clay loam, clay	CL	A-7, A-6	0	0-5	90-100	80-100	75-95	60-90	30-50	10-25
	30-60	Silty clay loam, clay loam, clay	CL	A-7, A-6	0	0	90-100	80-100	75-95	60-90	30-50	10-25
2: Hesperus-----	0-3	Loam	CL-ML, CL	A-4	0	0-5	90-100	90-100	75-95	55-75	25-30	5-10
	3-8	Loam	CL-ML, CL	A-4	0	0-5	90-100	90-100	75-95	55-75	25-30	5-10
	8-15	Clay loam, loam	CL-ML, CL	A-6, A-4	0	0-5	90-100	90-100	75-95	55-75	25-35	5-15
	15-22	Clay loam, loam	CL-ML, CL	A-6, A-4	0	0-5	90-100	90-100	75-95	55-75	25-35	5-15
	22-28	Clay loam, loam	CL-ML, CL	A-6, A-4	0	0-5	90-100	90-100	75-95	55-75	25-35	5-15
	28-40	Loam, clay loam	CL, CL-ML	A-4, A-6	0	0-5	90-100	90-100	80-100	60-80	25-35	5-15
	40-51	Clay loam	CL	A-6	0	0-5	90-100	90-100	80-100	60-80	30-35	10-15
	51-60	Clay loam	CL	A-6	0	0-5	90-100	90-100	80-100	60-80	30-35	10-15
10: Lillings-----	0-8	Silty clay loam	ML	A-4, A-6, A-7	0	0	95-100	90-100	90-100	75-95	30-45	5-15
	8-27	Stratified silty clay loam to very fine sandy loam to silt loam	CL, CL-ML	A-4, A-6	0	0	95-100	90-100	90-100	65-85	25-35	5-15
	27-50	Stratified silty clay loam to very fine sandy loam to silt loam to clay loam	CL-ML, CL	A-4, A-6	0	0	95-100	90-100	90-100	65-85	25-35	5-15
	50-60	Stratified silty clay loam to very fine sandy loam to silt loam	CL-ML, CL	A-4, A-6	0	0	95-100	90-100	90-100	65-85	25-35	5-15
12: Shawa-----	0-7	Loam	CL, CL-ML	A-4	0	0-5	95-100	90-100	75-95	55-75	25-30	5-10
	7-19	Loam	CL-ML, CL	A-4	0	0-5	95-100	90-100	75-95	55-75	25-30	5-10
	19-38	Clay loam, loam	CL, CL-ML	A-4, A-6	0	0-5	95-100	90-100	80-100	65-80	25-35	5-15
	38-60	Cobbly clay loam	CL	A-6	0	15-30	75-90	70-85	65-85	50-70	30-35	10-15
13: Fughes-----	0-2	Loam	CL-ML, CL	A-4	0-5	0-5	90-100	90-100	75-95	60-75	25-30	5-10
	2-7	Loam	CL-ML, CL	A-4	0-5	0-5	90-100	90-100	75-95	60-75	25-30	5-10
	7-18	Clay loam	CL	A-6	0-5	0-5	90-100	80-100	80-100	65-95	35-40	15-20
	18-26	Silty clay loam, clay loam	CL	A-6	0-5	0-5	90-100	80-100	80-100	65-95	35-40	15-20
	26-34	Clay, clay loam	CL	A-7, A-6	0-5	0-10	90-100	90-100	80-100	70-90	35-50	15-25
	34-44	Clay, clay loam	CL	A-7, A-6	0-5	0-10	90-100	90-100	80-100	70-90	35-50	15-25
	44-60	Clay loam, clay	CL, CH	A-6, A-7	0-5	0-5	90-100	90-100	80-100	70-90	35-60	20-40
14: Dalmatian-----	0-2	Loam	CL, CL-ML	A-4	0	0-5	95-100	90-100	75-95	55-75	25-30	5-10
	2-13	Loam	CL-ML, CL	A-4	0	0-5	95-100	90-100	75-95	55-75	25-30	5-10
	13-25	Sandy clay loam, loam	CL-ML, SC, SC-SM, CL	A-4	0	0-5	95-100	90-100	70-90	35-65	25-30	5-10
	25-39	Sandy clay loam, loam	SC-SM, SC, CL, CL-ML	A-4	0	0-5	95-100	90-100	70-90	35-65	25-30	5-10
	39-45	Sandy clay loam, loam	CL, CL-ML, SC, SC-SM	A-4	0	0-5	95-100	90-100	70-90	35-65	25-30	5-10
	45-49	Sandy clay loam, loam	CL-ML, CL, SC, SC-SM	A-4	0	0-5	95-100	90-100	70-90	35-65	25-30	5-10
	49-60	Gravelly sandy loam, sandy loam	SC-SM, SM	A-1, A-2	0	5-15	70-95	65-90	40-60	20-30	20-25	NP-5

Table 23.--Engineering index properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
					Pct.	Pct.						
14: Apmay-----	In.											
	0-4	Loam	ML	A-4	0	0-5	95-100	90-100	75-95	55-75	30-35	5-10
	4-10	Clay loam, sandy clay loam	CL	A-6	0	0-5	95-100	90-100	80-100	65-80	35-40	10-15
	10-18	Clay loam, sandy clay loam	CL	A-6	0	0-5	95-100	90-100	80-100	65-80	35-40	10-15
	18-22	Sandy loam	SC-SM	A-2, A-4	0	0-5	95-100	90-100	55-70	30-40	25-30	5-10
	22-28	Extremely gravelly loamy sand	GW	A-1	0-10	0-10	15-30	10-25	5-20	0-5	20-25	NP-5
	28-49	Extremely gravelly sandy loam	GW-GM, GW	A-1	0-10	0-10	15-30	10-25	5-20	0-10	20-25	NP-5
	49-60	Extremely gravelly loamy sand	GW	A-1	0-10	0-10	15-30	10-25	5-20	0-5	20-25	NP-5
Schrader-----	0-4	Loam	CL, CL-ML	A-4	0	0-5	95-100	90-100	75-95	55-75	25-30	5-10
	4-13	Loam	CL, CL-ML	A-4	0	0-5	95-100	90-100	75-95	55-75	25-30	5-10
	13-17	Fine sandy loam	SC, SC-SM, CL-ML	A-4	0	0-5	95-100	90-100	65-85	35-55	25-30	5-10
	17-24	Sandy clay loam	CL, SC-SM, SC, CL-ML	A-2, A-4, A-6	0	0-5	95-100	90-100	70-90	30-55	25-40	5-20
	24-60	Fine sandy loam	SC-SM, SC, CL-ML	A-4	0	0-5	95-100	90-100	65-85	35-55	25-30	5-10
15: Umbarg-----	0-9	Loam	CL, CL-ML	A-4	0	0-5	90-100	90-100	75-95	55-75	25-30	5-10
	9-18	Loam	CL-ML, CL	A-4	0	0-5	90-100	90-100	75-95	55-75	25-30	5-10
	18-25	Loam	CL-ML, CL	A-4	0	0-5	90-100	90-100	75-95	55-75	25-30	5-10
	25-34	Loam, clay loam	CL, CL-ML	A-4, A-6	0	0-5	90-100	90-100	80-100	65-80	25-35	5-15
	34-44	Loam, clay loam	CL-ML, CL	A-4, A-6	0	0-5	90-100	90-100	80-100	65-80	25-35	5-15
	44-48	Loam, clay loam	CL, CL-ML	A-4, A-6	0	0-5	90-100	90-100	80-100	65-80	25-35	5-15
	48-60	Silty clay loam	ML	A-4, A-6	0	0-5	90-100	90-100	85-100	75-95	30-45	5-15
16: Payter-----	0-3	Sandy loam	SC-SM, SM	A-2, A-4	0	0-5	95-100	90-100	55-70	25-40	20-25	NP-10
	3-6	Sandy loam	SC-SM, SM	A-2, A-4	0	0-5	95-100	90-100	55-70	25-40	20-25	NP-10
	6-11	Sandy loam	SC-SM, SM	A-2, A-4	0	0-5	95-100	90-100	55-70	25-40	20-25	NP-10
	11-17	Sandy loam	SC-SM	A-2, A-4	0	0-5	95-100	90-100	55-70	25-40	20-25	5-10
	17-39	Sandy loam	SC-SM	A-2, A-4	0	0-5	95-100	90-100	55-70	25-40	20-25	5-10
	39-60	Sandy loam	SC-SM	A-2, A-4	0	0-5	95-100	90-100	55-70	25-40	20-25	5-10
17: Fluvaquents----	0-6	Sand	CL, SM, SC, ML	A-2, A-4, A-6	0	0-10	55-100	50-90	25-80	5-65	15-40	NP-25
	6-60	Stratified very gravelly sand to sandy loam	SM, GM	A-1	0-15	0-25	45-70	35-65	15-40	5-20	0-0	NP
Haplustolls----	0-4	Sandy loam	SC-SM, SC	A-2, A-4	0	0-10	80-100	75-100	50-70	25-40	25-30	5-10
	4-11	Fine sandy loam, loam	CL, CL-ML	A-4	0	0-10	90-100	75-100	75-90	55-75	20-30	5-10
	11-19	Fine sandy loam, loam	CL-ML, CL	A-4	0	0-5	90-100	75-100	75-90	55-75	20-30	5-10
	19-24	Gravelly loamy sand, cobbly sandy loam	GM, GC-GM, SM, SC-SM	A-1, A-2, A- 3, A-4	0-5	0-20	60-80	55-75	10-70	5-50	20-25	NP-5
	24-60	Extremely cobbly sand, extremely gravelly loamy sand, extremely cobbly sandy loam	SC-SM, GC-GM, GP, GM	A-1, A-2, A- 3, A-4	0-15	10-60	45-75	35-70	5-65	0-50	20-25	NP-5

Table 23.--Engineering index properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In.				Pct.	Pct.					Pct.	
18: Endoaquolls----	0-4	Loam	CL, CL-ML	A-4	0-5	0-5	90-100	85-100	75-90	55-70	25-30	5-10
	4-12	Sandy loam, fine sandy loam, loam	SC, SC-SM, CL-ML	A-2, A-4	0	0	90-100	85-100	55-75	30-70	25-30	5-10
	12-14	Sandy loam, fine sandy loam, loam	SC, SC-SM, CL-ML	A-2, A-4	0	0	90-100	85-100	55-75	30-70	25-30	5-10
	14-19	Sandy loam, fine sandy loam, loam	SC-SM, SC, CL-ML	A-2, A-4	0	0	90-100	85-100	55-75	30-70	25-30	5-10
	19-28	Sandy loam, fine sandy loam, loam	SC-SM, SC, CL-ML	A-2, A-4	0	0	90-100	85-100	55-75	30-70	25-30	5-10
	28-60	Extremely cobbly loamy sand, extremely cobbly sand	SP, SP-SM, GP, GW, SW, GP-GM	A-1	0-20	30-70	20-80	20-70	10-55	0-20	20-25	NP-5
Ustifluvents----	0-6	Loam	CL, CL-ML	A-4	0	0-10	90-100	85-100	75-90	65-80	25-30	5-10
	6-17	Stratified fine sandy loam to loam	ML, SM	A-4	0	0-10	90-100	85-100	65-80	40-60	20-35	NP-10
	17-24	Stratified sandy loam to loam	SM	A-4	0	0-10	90-100	85-100	50-70	40-50	20-30	NP-5
	24-30	Stratified fine sandy loam to loam	SM, ML	A-4	0	0-10	90-100	85-100	65-80	40-60	20-35	NP-10
	30-60	Extremely cobbly sand, very gravelly sand	SW-SM, SW, GW-GM, GW	A-1	0-30	20-80	35-60	25-45	5-40	0-10	0-0	NP
20: Mavreeso-----	0-5	Loam	CL-ML, CL	A-4	0-5	0-5	85-100	80-100	70-95	50-75	25-30	5-10
	5-10	Loam	CL, CL-ML	A-4	0-5	0-5	85-100	80-100	70-95	50-75	25-30	5-10
	10-18	Loam	CL, CL-ML	A-4	0-5	0-5	85-100	80-100	70-95	50-75	25-30	5-10
	18-28	Channery loam, channery sandy loam	CL, SC-SM, CL-ML, SC	A-4	0-5	0-10	70-90	65-85	55-80	40-60	25-30	5-10
	28-42	Loam, sandy loam	CL-ML, CL	A-4	0-5	0-5	85-100	80-100	70-95	50-75	25-30	5-10
	42-50	Channery loam, channery sandy loam, sandy loam	CL, CL-ML, SC, SC-SM	A-2, A-4	0-5	0-10	65-85	60-75	55-70	30-60	25-30	5-10
	50-60	Loam	CL, CL-ML	A-4	0-5	0-5	85-100	80-100	70-95	50-75	25-30	5-10
51: Clayburn-----	0-5	Loam	CL-ML, CL	A-4	0	0-5	90-100	80-95	70-90	60-75	25-30	5-10
	5-13	Loam	CL-ML, CL	A-4	0	0-5	90-100	80-95	70-90	60-75	25-30	5-10
	13-18	Loam, clay loam, sandy clay loam	CL-ML, SC-SM, SC, CL	A-4, A-6	0-10	0-10	90-100	80-100	70-90	45-75	25-35	5-15
	18-36	Loam, clay loam, sandy clay loam	CL-ML, SC, CL, SC-SM	A-4, A-6	0-10	0-10	90-100	80-100	70-90	45-75	25-35	5-15
	36-48	Loam, clay loam, sandy clay loam	CL-ML, SC, CL, SC-SM	A-4, A-6	0-10	0-10	90-100	80-100	70-90	45-75	25-35	5-15
	48-60	Clay loam, sandy clay loam, loam	SC, CL-ML, CL, SC-SM	A-2, A-6, A-4	0-5	0-5	85-95	80-90	60-75	30-60	25-35	5-15

Table 23.--Engineering index properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In.				Pct.	Pct.					Pct.	
51: Hourglass-----	0-11	Loam	CL-ML, CL	A-4	0-5	0-5	90-100	85-100	60-90	50-75	25-30	5-10
	11-18	Gravelly sandy clay loam, gravelly clay loam, clay loam	CL, CL-ML	A-4, A-6	0-5	0-15	85-100	80-95	60-90	50-80	25-35	5-15
	18-31	Gravelly sandy clay loam, gravelly clay loam, clay loam	CL, SC-SM, CL-ML, GC, SC	A-4, A-6	0-5	0-15	60-95	55-95	50-90	40-80	25-35	5-15
	31-46	Very stony clay loam, stony clay loam	CL, SC	A-6	10-30	5-45	75-90	70-85	45-85	35-70	30-40	10-20
	46-60	Cobbly loam, loam, very stony clay loam	SC, SC-SM, CL-ML, CL, GC	A-4, A-6	5-40	5-40	50-90	45-85	40-75	35-65	25-35	5-15
52: Ohwiler-----	0-8	Loam	CL-ML, CL	A-4	0	0-5	90-100	80-100	80-95	65-85	25-30	5-10
	8-15	Loam	CL-ML, CL	A-4	0	0-5	90-100	80-100	80-95	65-85	25-30	5-10
	15-30	Clay loam, loam, sandy clay loam	CL, CL-ML	A-4, A-6	0	0-5	85-100	80-100	70-95	60-85	25-35	5-15
	30-40	Clay loam, loam, sandy clay loam	CL, CL-ML	A-4, A-6	0	0-5	85-100	80-100	70-95	60-85	25-35	5-15
	40-52	Loam, clay loam, sandy clay loam	CL, CL-ML	A-4, A-6	0	0-10	85-100	80-100	70-90	50-80	25-35	5-15
	52-60	Loam, clay loam, sandy clay loam	CL-ML, CL	A-4, A-6	0	0-10	85-100	80-100	70-90	50-80	25-35	5-15
53: Cryaquolls-----	0-7	Loam	CL, CL-ML	A-4	0	0-10	90-100	85-100	85-95	60-75	25-30	5-10
	7-12	Loam	CL-ML, CL	A-4	0	0-10	90-100	85-100	85-95	60-75	25-30	5-10
	12-60	Stratified extremely gravelly loam to extremely gravelly sandy loam, stratified gravelly loam to gravelly clay loam, loam, clay loam	GC-GM, GC, CL, CL-ML, SC-SM	A-2, A-4, A-1	0-10	0-40	25-100	20-100	15-85	15-70	25-30	5-10
Typic Cryaquents	0-3	Slightly decomposed plant material	PT	A-8	0	0	100	100	---	---	---	---
	3-11	Loam	CL, CL-ML	A-4	0	0-5	85-100	80-100	70-95	50-75	25-30	5-10
	11-63	Stratified very gravelly loamy sand to very gravelly sandy loam, very gravelly loamy sand, stratified gravelly sandy loam to gravelly loam to sandy clay loam	GP-GM, CL, GM, SC-SM, SM	A-1, A-2, A-4	0-25	0-40	50-95	35-90	25-75	10-60	20-30	NP-10

Table 23.--Engineering index properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In.				Pct.	Pct.					Pct.	
54: Quazar-----	0-3	Very cobbly loam	SC-SM, CL, SC, GC	A-2, A-4	0-25	20-60	45-90	40-85	35-80	25-65	25-30	5-10
	3-12	Very cobbly loam	GC, SC, SC-SM, CL	A-2, A-4	0-25	20-60	45-90	40-85	35-80	25-65	25-30	5-10
	12-26	Very gravelly clay loam, extremely gravelly clay loam, very gravelly sandy clay loam, extremely cobbly clay loam, extremely cobbly sandy clay loam	SC-SM, SC, GC, CL-ML, CL, GC-GM	A-4, A-2, A-6	0-20	15-65	30-75	25-70	15-65	10-60	25-35	5-15
	26-60	Very gravelly clay loam, extremely gravelly clay loam, very gravelly sandy clay loam, extremely cobbly clay loam, extremely cobbly sandy clay loam	CL, SC-SM, GC-GM, GC, SC, CL-ML	A-4, A-2, A-6	0-20	15-65	30-75	25-70	15-65	10-60	25-35	5-15
56: Typic Cryaquents	0-3	Slightly decomposed plant material	PT	A-8	0	0	100	100	---	---	---	---
	3-11	Loam	CL-ML, CL	A-4, A-6	0-5	0-10	90-100	85-100	75-95	50-70	25-35	5-15
	11-63	Stratified very gravelly sandy loam to very gravelly loamy sand, very gravelly loamy sand, gravelly sandy loam, gravelly sandy clay loam	CL, GM, SC-SM, SM, GP-GM	A-2, A-4, A-1	0-25	0-40	50-95	35-90	25-75	10-60	20-30	NP-10
	0-7	Loam	CL, CL-ML	A-4	0	0-10	90-100	85-100	85-95	60-75	25-30	5-10
Cryaquolls-----	7-12	Loam	CL-ML, CL	A-4	0	0-10	90-100	85-100	85-95	60-75	25-30	5-10
	12-60	Stratified extremely gravelly loam to extremely gravelly sandy loam, stratified gravelly loam to clay loam, loam, clay loam	GC-GM, GC, CL, CL-ML, SC-SM	A-1, A-2, A-4	0-10	0-40	25-100	20-100	15-85	15-70	25-30	5-10
	0-10	Peat	PT	A-8	0	0	100	100	---	---	---	---
Cryofibrists----	10-30	Peat	PT	A-8	0	0	100	100	---	---	---	---
	30-60	Muck	PT	A-8	0	0	100	100	---	---	---	---
	0-2	Gravelly loam	CL, CL-ML, SC, SC-SM	A-4	0-10	0-15	60-80	55-75	50-70	35-60	25-30	5-10
57: Howardsville----	2-10	Very gravelly sandy loam	GC-GM, GM	A-1	0-20	0-25	35-55	30-50	20-35	10-20	20-25	NP-5
	10-60	Extremely cobbly loamy sand, extremely cobbly sand, very cobbly sand	GP, GM, SM, SP	A-2, A-1	0-30	20-75	20-80	15-75	10-55	0-20	20-25	NP

Table 23.--Engineering index properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In.				Pct.	Pct.					Pct.	
58: Fughes-----	0-8	Loam	CL, CL-ML	A-4	0-5	0-5	90-100	90-100	75-95	60-95	25-30	5-10
	8-20	Clay loam	CL	A-6	0-5	0-5	90-100	90-100	80-100	65-80	30-40	10-20
	20-26	Clay loam	CL	A-6	0-5	0-5	90-100	90-100	80-100	65-80	30-40	10-20
	26-44	Clay, clay loam	CL	A-6, A-7	0-5	0-10	90-100	90-100	80-100	70-90	35-50	15-25
	44-60	Clay loam, clay, cobbly clay	CH, CL	A-7, A-6	0-5	0-35	80-100	75-100	70-100	60-90	35-60	20-40
Herm-----	0-6	Loam	CL-ML, CL	A-4	0-20	0-20	95-100	90-100	75-95	50-75	25-30	5-10
	6-13	Clay loam	CL	A-6	0	0-5	95-100	90-100	80-100	65-90	30-40	10-20
	13-17	Clay loam, clay	CL	A-6, A-7	0	0-5	95-100	90-100	80-100	65-95	35-50	15-25
	17-45	Clay loam, clay	CL	A-6, A-7	0	0-5	95-100	90-100	80-100	65-95	35-50	15-25
	45-60	Clay loam	CL	A-6	0-5	0-15	95-100	90-100	80-100	65-80	30-40	10-20
59: Fughes-----	0-20	Stony loam	CL-ML, CL	A-4	10-20	5-15	80-90	70-85	60-80	50-65	25-30	5-10
	20-26	Clay, clay loam, silty clay loam	CL	A-6, A-7	0-5	0-10	95-100	90-100	75-95	70-90	35-50	15-25
	26-44	Clay, clay loam, silty clay loam	CL	A-6, A-7	0-5	0-10	95-100	90-100	75-95	70-90	35-50	15-25
	44-60	Cobbly clay, clay, clay loam	CL, CH	A-6, A-7	0-3	0-35	80-100	75-100	70-100	60-90	35-60	20-40
Herm-----	0-6	Stony loam	SC-SM, SC, CL-ML, CL	A-4	10-40	5-15	80-95	75-90	60-85	45-60	25-30	5-10
	6-13	Stony clay loam	CL	A-6	10-40	5-15	80-90	75-85	70-75	60-70	35-40	15-20
	13-17	Clay, clay loam	CL	A-6, A-7	0	0-5	90-100	85-100	75-100	60-95	35-50	15-25
	17-45	Clay, clay loam	CL	A-6, A-7	0	0-5	90-100	85-100	75-100	60-95	35-50	15-25
	45-60	Clay loam	CL	A-6	0-5	0-10	90-100	90-100	80-100	65-80	30-40	10-20
60: Grimes-----	0-5	Very cobbly sandy loam	SM, GM	A-1, A-2	5-10	25-55	45-90	40-85	25-60	15-35	20-25	NP-5
	5-22	Extremely cobbly sandy loam, extremely cobbly loamy sand, extremely gravelly sandy loam, very gravelly loamy sand	GP-GM, GM	A-1	5-15	25-60	40-60	30-55	20-40	10-25	20-25	NP-5
	22-60	Extremely cobbly sand, extremely cobbly loamy sand, very cobbly loamy sand, very gravelly sand	GP-GM	A-1	5-20	25-60	30-55	20-50	10-30	5-10	0-0	NP
110: Sheek-----	0-2	Very cobbly clay loam	GC	A-2, A-6	0-10	20-60	55-65	50-60	35-60	30-50	30-35	10-15
	2-7	Gravelly clay loam	SC, CL	A-6	0-5	0-10	65-85	60-80	45-80	40-60	30-35	10-15
	7-20	Very cobbly clay loam	CL, SC	A-2, A-6	0-10	20-60	75-85	70-80	35-80	30-75	30-35	10-15
	20-29	Very cobbly loam	SC-SM, SC, CL-ML, CL	A-4	0-10	20-60	50-85	45-80	35-80	35-65	25-30	5-10
	29-46	Cobbly clay loam	CL	A-6	0-10	15-40	75-85	70-80	65-80	50-75	30-35	10-15
	46-60	Very cobbly loam	CL-ML, CL, SC, GC-GM	A-2, A-4	0-10	20-60	65-80	60-75	30-75	30-70	25-30	5-10

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In.				Pct.	Pct.					Pct.	
110: Ormiston-----	0-7 7-24	Loam Stony clay loam, very stony clay loam, very stony clay, extremely stony clay loam	CL, CL-ML GC, CH, CL	A-4 A-2, A-6, A-7	0-5 25-50	0-10 20-50	90-100 50-85	85-100 45-80	75-95 40-75	50-75 30-65	25-30 30-65	5-10 10-40
	24-32	Stony clay loam, very stony clay loam, very stony clay, extremely stony clay loam	CH, CL, GC	A-2, A-6, A-7	10-50	15-50	50-85	45-80	40-75	30-65	30-65	10-40
	32-44	Stony clay loam, very stony clay loam	CL	A-6	10-45	15-30	75-90	70-85	65-85	50-70	30-40	10-20
	44-54	Unweathered bedrock			---	---	---	---	---	---	---	---
111: Fardraw-----	0-8 8-11 11-15	Loam Loam Very gravelly clay loam, very gravelly sandy clay	CL-ML, CL CL-ML, CL GC	A-4 A-4 A-2, A-6, A-7	0-10 0-10 0-10	0-10 0-10 0-25	90-95 90-95 35-55	85-95 85-95 30-50	70-90 70-90 30-50	50-70 50-70 15-40	25-30 25-30 35-45	5-10 5-10 15-20
	15-29	Very cobbly sandy clay, very cobbly clay	GC, CL	A-2, A-6, A-7	10-30	20-60	45-90	40-85	35-80	20-80	35-50	15-25
	29-51	Very cobbly sandy clay, very cobbly clay	CL, GC	A-2, A-6, A-7	10-25	20-60	45-90	40-85	35-80	20-80	35-50	15-25
	51-60	Very cobbly sandy clay	SC, GC	A-2, A-6, A-7	10-25	15-60	50-95	40-85	35-80	20-50	35-45	15-20
113: Dolores-----	0-1 1-8 8-24	Slightly decomposed plant material Loam Very cobbly clay loam, extremely bouldery clay loam, extremely stony clay loam	PT CL, CL-ML GC	 A-4 A-2, A-6	 0-5 10-65	 0-10 10-60	 90-100 25-75	 85-100 20-70	 75-95 20-55	 50-75 15-50	 25-30 30-40	 5-10 10-20
	24-49	Very stony clay loam, very cobbly clay loam, extremely stony clay loam	CL, GC, CH	A-2, A-6, A-7	25-65	10-60	25-75	20-70	15-65	15-60	30-60	10-35
	49-61	Extremely stony clay, extremely stony clay loam	GC, CL, GC-GM	A-7, A-6, A-2	35-65	15-50	25-70	20-65	15-60	10-55	30-45	10-20
150: Sillex-----	0-1 1-4 4-10 10-18	Slightly decomposed plant material Loam Loam, clay loam Sandy clay loam, gravelly sandy clay loam	PT CL, CL-ML CL, CL-ML SC-SM, SC	 A-4 A-4, A-6 A-2, A-4, A-6	 0 0 0	 0-10 0-15 0-20	 90-100 85-100 85-100	 85-100 80-100 80-100	 70-95 70-90 65-70	 50-75 50-80 30-50	 25-30 25-40 25-35	 5-10 5-15 5-15
	18-22	Unweathered bedrock			---	---	---	---	---	---	---	---
Rock outcrop----	0-60	Unweathered bedrock			---	---	---	---	---	---	---	---

Table 23.--Engineering index properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In.				Pct.	Pct.					Pct.	
151: Frisco-----	0-2	Slightly decomposed plant material	PT		0	0	100	100	---	---	---	---
	2-5	Loam	CL-ML, CL	A-4	0-5	0-10	85-100	80-100	70-90	55-70	25-30	5-10
	5-11	Loam	CL, CL-ML	A-4	0-5	0-10	85-100	80-100	70-90	55-70	25-30	5-10
	11-19	Cobbly loam, stony loam	SC, CL-ML, CL, SC-SM	A-4	5-20	10-25	75-90	70-90	60-80	45-65	25-30	5-10
	19-48	Extremely stony sandy clay loam, very cobbly clay loam	SC-SM, GC-GM, GC, SC	A-1, A-2, A- 4, A-6	25-65	20-50	35-80	25-70	20-55	15-50	25-35	5-15
	48-62	Extremely stony loam	GC, GC-GM, SC, SC-SM	A-1, A-2, A-4	30-65	15-40	35-80	25-70	20-55	15-50	25-30	5-10
152: Frisco-----	0-2	Slightly decomposed plant material	PT		0	0	100	100	---	---	---	---
	2-5	Loam	CL-ML, CL	A-4	0-5	0-10	85-100	80-100	70-90	55-70	25-30	5-10
	5-11	Loam	CL-ML, CL	A-4	0-5	0-10	85-100	80-100	70-90	55-70	25-30	5-10
	11-19	Cobbly loam, stony loam	CL, SC-SM, CL-ML, SC	A-4	5-20	10-25	75-90	70-90	60-80	45-65	25-30	5-10
	19-48	Extremely stony sandy clay loam, very cobbly clay loam	SC-SM, GC-GM, GC, SC	A-1, A-2, A- 4, A-6	25-65	20-50	35-80	25-70	20-55	15-50	25-35	5-15
	48-62	Extremely stony loam	GC-GM, GC, SC, SC-SM	A-1, A-2, A-4	30-65	15-40	35-80	25-70	20-55	15-50	25-30	5-10
153: Frisco-----	0-2	Slightly decomposed plant material	PT		0	0	100	100	---	---	---	---
	2-5	Loam	CL, CL-ML	A-4	0-5	0-10	85-100	80-100	70-90	55-70	25-30	5-10
	5-11	Loam	CL-ML, CL	A-4	0-5	0-10	85-100	80-100	70-90	55-70	25-30	5-10
	11-19	Cobbly loam, stony loam	CL, CL-ML, SC, SC-SM	A-4	5-20	10-25	75-90	70-90	60-80	45-65	25-30	5-10
	19-48	Extremely stony sandy clay loam, very cobbly clay loam	SC-SM, GC, GC-GM, SC	A-1, A-2, A- 4, A-6	25-65	20-50	35-80	25-70	20-55	15-50	25-35	5-15
	48-62	Extremely stony loam	GC, SC, SC- SM, GC-GM	A-1, A-2, A-4	30-65	15-40	35-80	25-70	20-55	15-50	25-30	5-10
Horsethief-----	0-2	Slightly decomposed plant material	PT		0	0	100	100	---	---	---	---
	2-5	Loam	CL, CL-ML	A-4	0-5	0-5	90-100	85-95	70-90	50-70	25-30	5-10
	5-16	Fine sandy loam	SC, SC-SM	A-4	0-5	0-10	85-95	80-90	60-80	35-50	25-30	5-10
	16-24	Fine sandy loam	SC, SC-SM	A-4	0-5	0-10	85-95	80-90	60-80	35-50	25-30	5-10
	24-32	Fine sandy loam, sandy clay loam	SC, CL, SC- SM, CL-ML	A-4, A-6	0-5	5-15	85-95	80-90	65-80	35-55	25-35	5-15
	32-49	Extremely cobbly loam, very stony sandy clay loam, very stony clay loam	CL, GC, SC, CL-ML, SC-SM	A-4, A-6	25-60	10-55	65-95	60-90	50-85	40-70	25-35	5-15
	49-62	Extremely stony loam, very stony clay loam	CL-ML, CL, GC, SC, SC- SM	A-4, A-6	25-60	10-30	65-95	60-90	50-85	40-70	25-35	5-15
154: Frisco-----	0-2	Slightly decomposed plant material	PT		0	0	100	100	---	---	---	---
	2-5	Loam	CL-ML, CL	A-4	0-5	0-10	85-100	80-100	70-90	55-70	25-30	5-10
	5-11	Loam	CL, CL-ML	A-4	0-5	0-10	85-100	80-100	70-90	55-70	25-30	5-10
	11-19	Cobbly loam, stony loam	CL-ML, SC, SC-SM, CL	A-4	5-20	10-25	75-90	70-90	60-80	45-65	25-30	5-10
	19-48	Extremely stony sandy clay loam, very cobbly clay loam	GC, GC-GM, SC, SC-SM	A-1, A-2, A- 4, A-6	25-65	20-50	35-80	25-70	20-55	15-50	25-35	5-15
	48-62	Extremely stony loam	SC-SM, GC-GM, SC, GC	A-1, A-2, A-4	30-65	15-40	35-80	25-70	20-55	15-50	25-30	5-10

Table 23.--Engineering index properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches						
					4	10	40	200				
	In.				Pct.	Pct.					Pct.	
154: Horsethief-----	0-2	Slightly decomposed plant material	PT		0	0	100	100	---	---	---	---
	2-5	Loam	CL-ML, CL	A-4	0-5	0-5	90-100	85-95	70-90	50-70	25-30	5-10
	5-16	Fine sandy loam	SC-SM, SC	A-4	0-5	0-10	85-95	80-90	60-80	35-50	25-30	5-10
	16-24	Fine sandy loam	SC-SM, SC	A-4	0-5	0-10	85-95	80-90	60-80	35-50	25-30	5-10
	24-32	Fine sandy loam, sandy clay loam, clay loam	SC-SM, CL, CL-ML, SC	A-6, A-4	0-5	5-15	85-95	80-90	65-80	35-55	25-35	5-15
	32-49	Extremely cobbly loam, very stony sandy clay loam, very stony clay loam	SC-SM, CL-ML, SC, GC, CL	A-4, A-6	25-60	10-55	65-95	60-90	50-85	40-70	25-35	5-15
	49-62	Extremely stony loam, very stony clay loam	SC-SM, SC, GC, CL-ML, CL	A-4, A-6	25-60	10-30	65-95	60-90	50-85	40-70	25-35	5-15
155: Tuckerville----	0-3	Slightly decomposed plant material	PT		0	0	100	100	---	---	---	---
	3-6	Stony loam	CL, CL-ML	A-4	10-30	5-20	75-90	70-85	60-80	50-60	25-30	5-10
	6-21	Very stony sandy loam	GC-GM, SC-SM, GC, SC	A-4, A-2, A-1	25-60	15-30	45-80	30-75	25-50	20-45	25-30	5-10
	21-26	Very stony sandy loam, very stony sandy clay loam	SC, GC-GM, SC-SM, GC	A-4, A-1, A-2	25-60	15-30	45-80	40-75	25-65	20-45	25-35	5-10
	26-47	Very cobbly clay loam, very stony sandy clay loam, very cobbly loam, extremely stony sandy clay loam	GC, GC-GM, SC, SC-SM	A-6, A-4, A-1, A-2	15-60	15-50	35-80	30-70	25-55	20-50	25-35	5-15
	47-63	Extremely stony sandy loam	SC-SM, SC, GC, GC-GM	A-1, A-2	30-70	15-50	35-70	30-60	15-40	10-30	25-30	5-10
Rock outcrop----	0-60	Unweathered bedrock			---	---	---	---	---	---	---	
156: Sponsor-----	0-1	Slightly decomposed plant material	PT		0	0	100	100	---	---	---	---
	1-7	Loam	CL, CL-ML	A-4	0-5	0-5	95-100	90-100	75-90	55-75	25-30	5-10
	7-12	Loam	CL, CL-ML	A-4	0-5	0-5	95-100	90-100	75-90	55-75	25-30	5-10
	12-25	Cobbly clay loam, gravelly clay loam, clay loam	CL	A-6	0-10	0-25	70-95	60-90	55-90	50-75	30-35	10-15
	25-43	Cobbly clay loam, gravelly clay loam, clay loam	CL	A-6	0-10	0-35	70-95	60-90	55-90	50-75	30-35	10-15
	43-61	Cobbly clay loam, very stony clay loam, very cobbly clay loam	CL, GC	A-2, A-6	10-40	5-55	45-85	40-80	35-75	30-70	30-35	10-15

Table 23.--Engineering index properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	<u>In.</u>				<u>Pct.</u>	<u>Pct.</u>					<u>Pct.</u>	
156: Tuckerville-----	0-3	Slightly decomposed plant material	PT		0	0	100	100	---	---	---	---
	3-6	Loam	CL-ML, CL	A-4	0-5	0-5	85-100	80-95	70-95	50-75	25-30	5-10
	6-21	Stony loam	CL-ML, CL	A-4	10-30	10-20	75-95	70-85	60-80	50-60	25-30	5-10
	21-26	Very stony sandy loam, very stony sandy clay loam	GC-GM, SC-SM, GC, SC	A-4, A-1, A-2	25-60	15-30	45-80	40-75	25-65	20-45	25-35	5-10
	26-47	Very cobbly loam, very stony clay loam, extremely stony sandy clay loam, very stony sandy clay loam	SC, GC, SC-SM, GC-GM	A-4, A-1, A-2, A-6	15-60	15-50	35-80	30-70	25-55	20-50	25-35	5-15
	47-63	Extremely stony sandy loam	SC-SM, SC, GC-GM, GC	A-2, A-1	30-70	15-50	35-70	30-60	15-40	10-35	25-30	5-10
157: Sponsor-----	0-1	Slightly decomposed plant material	PT		0	0	100	100	---	---	---	---
	1-7	Loam	CL-ML, CL	A-4	0-5	0-5	95-100	90-100	75-90	55-75	25-30	5-10
	7-12	Loam	CL, CL-ML	A-4	0-5	0-5	95-100	90-100	75-90	55-75	25-30	5-10
	12-25	Cobbly clay loam, gravelly clay loam, clay loam	CL	A-6	0-10	0-25	70-95	60-90	55-90	50-75	30-35	10-15
	25-43	Cobbly clay loam, gravelly clay loam, clay loam	CL	A-6	0-10	0-35	70-95	60-90	55-90	50-75	30-35	10-15
	43-61	Cobbly clay loam, very stony clay loam, very cobbly clay loam	GC, CL	A-2, A-6	10-40	5-55	45-85	40-80	35-75	30-70	30-35	10-15
Tuckerville-----	0-3	Slightly decomposed plant material	PT		0	0	100	100	---	---	---	---
	3-6	Stony loam	CL, CL-ML	A-4	10-30	5-20	75-90	70-85	60-80	50-60	25-30	5-10
	6-21	Stony loam	CL-ML, CL	A-4	10-30	5-20	75-90	70-85	60-80	50-60	25-30	5-10
	21-26	Very stony sandy loam, very stony sandy clay loam	SC-SM, GC, SC, GC-GM	A-2, A-4, A-1	25-60	15-30	45-80	40-75	25-65	20-45	25-35	5-10
	26-47	Very cobbly loam, very stony clay loam, extremely stony sandy clay loam, very stony sandy clay loam	GC-GM, SC, SC-SM, GC	A-2, A-6, A-4, A-1	15-60	15-50	35-80	30-70	25-55	20-50	25-35	5-15
	47-63	Extremely stony sandy loam	SC-SM, SC, GC-GM, GC	A-2, A-1	30-70	15-50	35-70	30-60	15-40	10-35	25-30	5-10

Table 23.--Engineering index properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
					Pct.	Pct.						
158: Sponsor-----	In.											
	0-1	Slightly decomposed plant material	PT		0	0	100	100	---	---	---	---
	1-7	Loam	CL-ML, CL	A-4	0-5	0-5	95-100	90-100	75-90	55-75	25-30	5-10
	7-12	Loam	CL-ML, CL	A-4	0-5	0-5	95-100	90-100	75-90	55-75	25-30	5-10
	12-25	Cobbly clay loam, gravelly clay loam, clay loam	CL	A-6	0-10	0-25	70-95	60-90	55-90	50-75	30-35	10-15
	25-43	Cobbly clay loam, gravelly clay loam, clay loam	CL	A-6	0-10	0-35	70-95	60-90	55-90	50-75	30-35	10-15
	43-61	Cobbly clay loam, very stony clay loam, very cobbly clay loam	GC, CL	A-2, A-6	10-40	5-55	45-85	40-80	35-75	30-70	30-35	10-15
Tuckerville----	0-3	Slightly decomposed plant material	PT		0	0	100	100	---	---	---	---
	3-6	Loam	CL, CL-ML	A-4	0-5	0-5	85-100	80-95	70-95	50-75	25-30	5-10
	6-21	Stony loam	CL-ML, CL	A-4	10-30	10-20	75-95	70-85	60-80	50-60	25-30	5-10
	21-26	Very stony sandy loam, very stony sandy clay loam	SC, GC, SC- SM, GC-GM	A-4, A-2, A-1	25-60	15-30	45-80	40-75	25-65	20-45	25-35	5-10
	26-47	Very cobbly loam, very stony clay loam, extremely stony sandy clay loam, very stony sandy clay loam	SC, GC, GC- GM, SC-SM	A-2, A-6, A- 4, A-1	15-60	15-50	35-80	30-70	25-55	20-50	25-35	5-15
	47-63	Extremely stony sandy loam	SC, SC-SM, GC-GM, GC	A-2, A-1	30-70	15-50	35-70	30-60	15-40	10-30	25-30	5-10
	159: Tuckerville----	0-3	Slightly decomposed plant material	PT		0	0	100	100	---	---	---
3-6		Very stony sandy loam	GC, SC, SC- SM, GC-GM	A-1, A-2, A-4	25-60	15-30	45-80	30-75	25-50	20-45	25-30	5-10
6-21		Very stony sandy loam	GC, SC, SC- SM, GC-GM	A-1, A-2, A-4	25-60	15-30	45-80	30-75	25-50	20-45	25-30	5-10
21-26		Very cobbly loam, very cobbly clay loam, extremely stony sandy clay loam, very stony sandy clay loam, very stony sandy clay loam	GC, GC-GM, SC-SM, SC	A-4, A-1, A-2	25-60	15-30	45-80	40-75	25-65	20-45	25-35	5-10
26-47		Very cobbly loam, very cobbly clay loam, extremely stony sandy clay loam, very stony sandy clay loam	SC, GC, GC- GM, SC-SM	A-4, A-1, A- 2, A-6	15-60	15-50	35-80	30-70	25-55	20-50	25-35	5-15
47-63		Very stony sandy loam, very cobbly sandy clay loam, extremely stony sandy loam	GC, GC-GM, SC, SC-SM	A-1, A-2	30-70	15-50	35-70	30-60	15-40	10-30	25-30	5-10

Table 23.--Engineering index properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In.				Pct.	Pct.					Pct.	
160: Anvik-----	0-1	Slightly decomposed plant material	PT		0	0	100	100	---	---	---	---
	1-7	Loam	CL, CL-ML	A-4	0	0	90-100	85-100	70-95	50-70	25-30	5-10
	7-11	Loam	CL, CL-ML	A-4	0	0	90-100	85-100	70-95	50-70	25-30	5-10
	11-22	Sandy loam, loam	SC-SM, CL-ML, CL, SC	A-2, A-4	0	0	90-100	85-95	60-90	30-60	25-30	5-10
	22-31	Clay loam, cobbly loam, sandy clay loam	CL-ML, SC, CL, SC-SM	A-4, A-6	0-5	0-30	90-100	75-100	70-90	40-75	25-35	5-15
	31-45	Clay loam, cobbly loam, sandy clay loam	SC-SM, SC, CL-ML, CL	A-4, A-6	0-5	0-30	90-100	75-100	70-90	40-75	25-35	5-15
	45-61	Loam, cobbly clay loam, sandy clay loam	CL, SC	A-4, A-6	0-3	5-30	75-100	75-95	55-85	40-70	25-35	5-15
Tuckerville----	0-3	Slightly decomposed plant material	PT		0	0	100	100	---	---	---	---
	3-6	Stony loam	CL, CL-ML	A-4	10-30	5-20	75-90	70-85	60-80	50-60	25-30	5-10
	6-21	Stony loam	CL, CL-ML	A-4	10-30	5-20	75-90	70-85	60-80	50-60	25-30	5-10
	21-26	Very stony sandy loam, very stony sandy clay loam	GC-GM, SC-SM, SC, GC	A-2, A-4, A-1	25-60	15-30	45-80	40-75	25-65	20-45	25-35	5-10
	26-47	Very cobbly loam, very cobbly clay loam, extremely stony sandy clay loam, very stony sandy clay loam	GC-GM, GC, SC, SC-SM	A-2, A-6, A- 4, A-1	15-60	15-50	35-80	30-70	25-55	20-50	25-35	5-15
	47-63	Extremely stony sandy loam	SC-SM, SC, GC-GM, GC	A-1, A-2	30-70	15-50	35-70	30-60	15-40	10-30	25-30	5-10
161: Needleton-----	0-2	Slightly decomposed plant material	PT		0	0	100	100	---	---	---	---
	2-16	Stony loam	SC-SM, CL-ML, CL, SC	A-4	10-40	10-30	75-90	70-85	60-80	45-65	25-30	5-10
	16-26	Very cobbly sandy clay loam, extremely cobbly clay loam, very cobbly loam, very cobbly sandy loam	SC-SM, CL-ML, CL, SC	A-2, A-4	0-15	25-60	50-90	45-85	40-75	25-60	25-30	5-10
	26-48	Very cobbly sandy clay loam, extremely stony loam, very stony sandy clay loam, very cobbly clay loam	SC-SM, SC, GC, CL, CL- ML, GC-GM	A-6, A-2, A-4	15-50	15-50	45-90	40-85	30-75	20-65	25-35	5-15
	48-62	Very cobbly clay loam	CL, GC, SC- SM, CL-ML, SC, GC-GM	A-6, A-2, A-4	15-25	20-50	45-90	40-85	30-75	20-65	25-35	5-15

Table 23.--Engineering index properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In.				Pct.	Pct.					Pct.	
162: Quazar-----	0-12	Very cobbly loam	CL, GC, SC, SC-SM	A-2, A-4	0-25	20-60	45-90	40-85	35-80	25-65	25-30	5-10
	12-26	Very gravelly clay loam, extremely gravelly clay loam, very gravelly sandy clay loam, extremely cobbly clay loam, extremely cobbly sandy clay loam	SC, CL-ML, GC, GC-GM, SC-SM, CL	A-2, A-6, A-4	0-20	15-65	30-75	25-70	15-65	10-60	25-35	5-15
	26-60	Extremely gravelly clay loam	GC, GC-GM	A-2	0-20	15-35	15-30	10-25	10-25	5-20	30-35	10-15
Varden-----	0-15	Very cobbly loam	SC-SM, SC, GC-GM, GC	A-2, A-4	10-25	20-60	45-90	40-85	35-80	25-50	25-30	5-10
	15-30	Very cobbly loam, extremely stony sandy clay loam, extremely cobbly loam	GC, GC-GM, SC, SC-SM	A-1, A-2, A-4	15-65	20-75	45-80	40-75	25-65	15-50	25-30	5-10
	30-60	Extremely stony sandy clay loam, extremely cobbly loam	GC-GM, GC, SC, SC-SM	A-4, A-2, A-1	15-65	25-75	20-70	15-60	15-45	10-40	25-30	5-10
163: Clayburn-----	0-5	Loam	CL, CL-ML	A-4	0	0-5	90-100	80-95	70-90	60-75	25-30	5-10
	5-13	Loam	CL, CL-ML	A-4	0	0-5	90-100	80-95	70-90	60-75	25-30	5-10
	13-18	Loam, clay loam, sandy clay loam	SC-SM, SC, CL-ML, CL	A-4, A-6	0-10	0-10	90-100	80-100	70-90	45-75	25-35	5-15
	18-36	Loam, clay loam, sandy clay loam	SC-SM, CL-ML, CL, SC	A-4, A-6	0-10	0-10	90-100	80-100	70-90	45-75	25-35	5-15
	36-48	Loam, clay loam, sandy clay loam	CL-ML, SC, SC-SM, CL	A-4, A-6	0-10	0-10	90-100	80-100	70-90	45-75	25-35	5-15
	48-60	Clay loam, sandy clay loam, loam	SC-SM, CL-ML, SC, CL	A-6, A-2, A-4	0-5	0-5	85-95	80-90	60-75	30-60	25-35	5-15
Hourglass-----	0-11	Loam	CL-ML, CL	A-4	0-5	0-5	90-100	85-100	60-90	50-75	25-30	5-10
	11-18	Gravelly sandy clay loam, clay loam	CL, CL-ML	A-4, A-6	0-5	0-15	85-100	80-95	60-90	50-80	25-35	5-15
	18-31	Gravelly clay loam, clay loam, loam	CL, SC-SM, CL-ML, GC, SC	A-4, A-6	0-5	0-15	60-95	55-95	50-90	40-80	25-35	5-15
	31-46	Very stony clay loam, stony clay loam	CL, SC	A-6	10-30	5-45	75-90	70-85	45-85	35-70	30-40	10-20
	46-60	Very stony clay loam, cobbly loam, loam	GC, SC-SM, CL-ML, CL, SC	A-4, A-6	5-40	5-40	50-90	45-85	40-75	35-65	25-35	5-15
164: Hourglass-----	0-11	Loam	CL-ML, CL	A-4	0-5	0-5	90-100	85-100	60-90	50-75	25-30	5-10
	11-18	Gravelly sandy clay loam, clay loam	CL-ML, CL	A-6, A-4	0-5	0-15	85-100	80-95	60-90	50-80	25-35	5-15
	18-31	Gravelly clay loam, clay loam, loam	SC-SM, CL, GC, SC, CL-ML	A-6, A-4	0-5	0-15	60-95	55-95	50-90	40-80	25-35	5-15
	31-46	Very stony clay loam, stony clay loam	SC, CL	A-6	10-30	5-45	75-90	70-85	45-85	35-70	30-40	10-20
	46-60	Very stony clay loam, cobbly loam, loam	SC-SM, CL-ML, SC, CL, GC	A-6, A-4	5-40	5-40	50-90	45-85	40-75	35-65	25-35	5-15

Table 23.--Engineering index properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
					Pct.	Pct.						
164: Bucklon-----	In.											
	0-1	Clay loam, loam	CL-ML, CL	A-6, A-4	0	0-5	90-100	85-95	75-90	50-75	25-35	5-15
	1-12	Clay loam, loam	CL-ML, CL	A-6, A-4	0	0-5	90-100	85-95	75-90	50-75	25-35	5-15
	12-22	Weathered bedrock			---	---	---	---	---	---	---	---
Wander-----	0-14	Very cobbly loam	SC, CL, SC- SM, GC	A-2, A-4	0-25	20-60	45-90	40-85	35-80	25-65	25-30	5-10
	14-27	Very cobbly clay loam, extremely cobbly sandy clay loam	CL-ML, SC-SM, GC, SC, CL	A-4, A-6	5-20	20-65	55-85	50-85	45-75	35-70	25-35	5-15
	27-40	Very cobbly loam, very cobbly clay loam	CL-ML, CL, SC-SM, SC, GC	A-4, A-6	5-20	20-65	55-85	50-85	45-75	35-70	25-35	5-15
	40-60	Extremely cobbly loam, very cobbly clay loam	SC, GC, CL- ML, SC-SM, CL	A-4, A-6	5-20	20-65	55-85	50-85	45-75	35-70	25-35	5-15
165: Pinacol-----	0-1	Slightly decomposed plant material	PT		0	0	100	100	---	---	---	---
	1-4	Loam	CL-ML, CL	A-4	0-10	0-10	90-100	90-100	75-95	55-75	25-30	5-10
	4-13	Loam	CL-ML, CL	A-4	0-10	0-10	90-100	90-100	75-95	55-75	25-30	5-10
	13-20	Stony clay loam, cobbly clay loam	CL	A-6	10-40	10-40	75-90	70-85	65-85	50-70	35-40	15-20
	20-33	Very stony clay loam, extremely cobbly clay loam, extremely cobbly sandy clay, very cobbly clay loam, extremely cobbly clay	CL, GC, SC	A-7, A-6	15-60	15-70	60-80	55-75	45-70	40-60	35-50	15-25
	33-49	Very stony clay loam	SC, GC, CL	A-7, A-6	25-60	15-50	60-80	55-75	45-70	40-60	35-45	15-20
	49-61	Very cobbly clay loam, very stony sandy clay loam, very stony clay loam	SC, GC, CL	A-6, A-2	15-50	15-50	50-75	45-75	40-65	30-55	25-40	10-20
166: Pinacol-----	0-1	Slightly decomposed plant material	PT		0	0	100	100	---	---	---	---
	1-4	Loam	CL, CL-ML	A-4	0-10	0-10	90-100	90-100	75-95	55-75	25-30	5-10
	4-13	Loam	CL-ML, CL	A-4	0-10	0-10	90-100	90-100	75-95	55-75	25-30	5-10
	13-20	Stony clay loam, cobbly clay loam	CL	A-6	10-40	10-40	75-90	70-85	65-85	50-70	35-40	15-20
	20-33	Very stony clay loam, extremely cobbly clay loam, extremely cobbly sandy clay, very cobbly clay loam, extremely cobbly clay	CL, SC, GC	A-6, A-7	15-60	15-70	60-80	55-75	45-70	40-60	35-50	15-25
	33-49	Very stony clay loam	CL, SC, GC	A-7, A-6	25-60	15-50	60-80	55-75	45-70	40-60	35-45	15-20
	49-61	Very cobbly clay loam, very stony sandy clay loam, very stony clay loam	CL, GC, SC	A-6, A-2	15-50	15-50	50-75	45-75	40-65	30-55	25-40	10-20

Table 23.--Engineering index properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In.				Pct.	Pct.					Pct.	
250: Snowdon-----	0-2	Slightly decomposed plant material	PT		0	0	100	100	---	---	---	---
	2-6	Very stony loam	CL, SC, GC- GM, GC	A-2, A-4	25-60	5-40	45-90	40-85	35-80	25-65	25-30	5-10
	6-13	Stony sandy loam, very stony sandy loam, very cobbly sandy loam	GC-GM, SC, SC-SM, GC	A-1, A-2	15-50	10-60	45-90	40-85	25-60	20-35	25-30	5-10
	13-20	Very stony loam, extremely stony sandy clay loam, very cobbly clay loam	GC, GC-GM, SC-SM, SC	A-2, A-4, A-6	15-50	20-60	45-90	40-85	30-75	15-50	25-35	5-15
	20-24	Unweathered bedrock			---	---	---	---	---	---	---	---
Rock outcrop----	0-60	Unweathered bedrock			---	---	---	---	---	---	---	---
251: Rock outcrop----	0-60	Unweathered bedrock			---	---	---	---	---	---	---	---
Snowdon-----	0-2	Slightly decomposed plant material	PT		0	0	100	100	---	---	---	---
	2-6	Very stony loam	SC, GC, GC- GM, CL	A-2, A-4	25-60	5-40	45-90	40-85	35-80	25-65	25-30	5-10
	6-13	Stony sandy loam, very stony sandy loam, very cobbly sandy loam	GC, GC-GM, SC, SC-SM	A-1, A-2	15-50	10-60	45-90	40-85	25-60	20-35	25-30	5-10
	13-20	Very stony loam, extremely stony sandy clay loam, very cobbly clay loam	SC, SC-SM, GC-GM, GC	A-2, A-4, A-6	15-50	20-60	45-90	40-85	30-75	15-50	25-35	5-15
	20-24	Unweathered bedrock			---	---	---	---	---	---	---	---
254: Typic Cryorthents----	0-5	Extremely stony loam	GM, GC-GM, GC	A-1, A-2	20-55	20-55	35-55	30-50	20-40	20-35	25-35	5-10
	5-60	Extremely stony loam, extremely stony sandy loam, extremely cobbly loam	GC-GM, GC	A-1, A-2	15-55	15-55	40-50	35-45	25-35	15-30	25-35	5-10
Rubble land----	0-60	Fragmental material	GP	A-1	45-80	45-90	0-10	0-5	0-5	0	0-14	NP

Table 23.--Engineering index properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
					Pct.	Pct.						
330: Needleton-----	<u>In.</u>				<u>Pct.</u>	<u>Pct.</u>					<u>Pct.</u>	
	0-2	Slightly decomposed plant material	PT		0	0	100	100	---	---	---	---
	2-16	Stony loam	SC-SM, CL, SC, CL-ML	A-4	10-40	10-30	75-90	70-85	60-80	45-65	25-30	5-10
	16-26	Very cobbly sandy clay loam, extremely cobbly clay loam, very cobbly loam, very cobbly sandy loam	CL-ML, CL, SC, SC-SM	A-2, A-4	0-15	25-60	50-90	45-85	40-75	25-60	25-30	5-10
	26-48	Very cobbly sandy clay loam, extremely stony loam, very stony sandy clay loam, very cobbly clay loam	SC, CL-ML, CL, GC, GC- GM, SC-SM	A-6, A-2, A-4	15-50	15-50	45-90	40-85	30-75	20-65	25-35	5-15
	48-62	Very cobbly clay loam	SC-SM, SC, GC-GM, GC, CL, CL-ML	A-6, A-2, A-4	15-25	20-50	45-90	40-85	30-75	20-65	25-35	5-15
331: Needleton-----	0-2	Slightly decomposed plant material	PT		0	0	100	100	---	---	---	---
	2-16	Stony loam	SC-SM, CL-ML, CL, SC	A-4	10-40	10-30	75-90	70-85	60-80	45-65	25-30	5-10
	16-26	Very cobbly sandy clay loam, extremely cobbly clay loam, very cobbly loam, very cobbly sandy loam	CL-ML, CL, SC-SM, SC	A-2, A-4	0-15	25-60	50-90	45-85	40-75	25-60	25-30	5-10
	26-48	Very cobbly sandy clay loam, extremely stony loam, very stony sandy clay loam, very cobbly clay loam	GC, GC-GM, SC-SM, SC, CL, CL-ML	A-6, A-2, A-4	15-50	15-50	45-90	40-85	30-75	20-65	25-35	5-15
	48-62	Very cobbly clay loam	SC-SM, SC, GC-GM, GC, CL, CL-ML	A-6, A-2, A-4	15-25	20-50	45-90	40-85	30-75	20-65	25-35	5-15
	332: Horsethief-----	0-2	Slightly decomposed plant material	PT		0	0	100	100	---	---	---
2-21		Extremely stony loam	GC, CL-ML, CL, SC, SC- SM, GC-GM	A-2, A-4	30-60	15-35	55-80	50-75	45-70	25-55	25-30	5-10
21-30		Extremely stony sandy loam	GC-GM, SC-SM, SC, GC	A-2, A-1	30-55	20-50	40-65	30-50	20-40	15-30	25-30	5-10
30-38		Very stony fine sandy loam, very stony sandy clay loam	SC-SM, CL-ML, SC, CL	A-6, A-4	25-60	10-55	85-95	80-90	65-80	35-55	25-35	5-15
38-55		Extremely cobbly loam, very stony sandy clay loam, very stony clay loam	GC, CL-ML, SC-SM, SC, CL	A-4, A-6	25-60	10-55	65-95	60-90	50-85	40-70	25-35	5-15
55-62		Extremely stony loam, very stony clay loam	SC-SM, SC, GC, CL-ML, CL	A-4, A-6	25-60	10-30	65-95	60-90	50-85	40-70	25-35	5-15

Table 23.--Engineering index properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In.				Pct.	Pct.					Pct.	
332: Needleton-----	0-2	Slightly decomposed plant material	PT		0	0	100	100	---	---	---	---
	2-16	Stony loam	CL, SC, CL- ML, SC-SM	A-4	10-40	10-30	75-90	70-85	60-80	45-65	25-30	5-10
	16-26	Very cobbly sandy clay loam, extremely cobbly clay loam, very cobbly loam, very cobbly sandy loam	CL, SC, CL- ML, SC-SM	A-2, A-4	0-15	25-60	50-90	45-85	40-75	25-60	25-30	5-10
	26-48	Very cobbly sandy clay loam, extremely stony loam, very stony sandy clay loam, very cobbly clay loam	SC-SM, CL-ML, CL, GC, GC- GM, SC	A-6, A-2, A-4	15-50	15-50	45-90	40-85	30-75	20-65	25-35	5-15
	48-62	Very cobbly clay loam	SC-SM, SC, GC-GM, GC, CL, CL-ML	A-6, A-2, A-4	15-25	20-50	45-90	40-85	30-75	20-65	25-35	5-15
333: Henson, south aspect-----	0-1	Moderately decomposed plant material	PT		0	0	100	100	---	---	---	---
	1-5	Very gravelly loam	GC, GC-GM	A-1, A-2, A-4	0-5	15-25	35-55	30-50	25-50	20-40	25-30	5-10
	5-13	Very cobbly loam, very cobbly clay loam	SC, SC-SM, GC, GC-GM	A-6, A-2, A-4	10-40	20-60	55-75	50-70	40-65	25-50	25-35	5-15
	13-25	Very cobbly loam, very stony sandy clay loam	GC, SC, SC- SM, GC-GM	A-6, A-2, A-4	10-60	20-60	55-75	50-70	40-65	25-50	25-35	5-15
	25-61	Very cobbly sandy clay loam, extremely stony sandy loam, extremely cobbly loam, extremely cobbly sandy loam	SC-SM, GC-GM, GC, SC	A-2, A-4	15-70	30-70	55-80	50-75	35-60	25-50	25-30	5-10
334: Henson, south aspect-----	0-1	Moderately decomposed plant material	PT		0	0	100	100	---	---	---	---
	1-5	Very gravelly loam	GC-GM, GC	A-1, A-2, A-4	0-5	15-25	35-55	30-50	25-50	20-40	25-30	5-10
	5-13	Very cobbly loam, very cobbly clay loam	GC-GM, SC-SM, SC, GC	A-6, A-2, A-4	10-40	20-60	55-75	50-70	40-65	25-50	25-35	5-15
	13-25	Very cobbly loam, very stony sandy clay loam	SC-SM, SC, GC, GC-GM	A-6, A-2, A-4	10-60	20-60	55-75	50-70	40-65	25-50	25-35	5-15
	25-61	Very cobbly sandy clay loam, extremely stony sandy loam, extremely cobbly loam, extremely cobbly sandy loam	SC-SM, SC, GC, GC-GM	A-2, A-4	15-70	30-70	55-80	50-75	35-60	25-50	25-30	5-10

Table 23.--Engineering index properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In.				Pct.	Pct.					Pct.	
335: Whitecross-----	0-1	Slightly decomposed plant material	PT		0	0	100	100	---	---	---	---
	1-4	Very stony sandy loam	GC-GM, SC-SM, SC, GC	A-1, A-2	25-60	15-40	45-90	40-85	25-60	15-35	25-30	5-10
	4-10	Very stony sandy loam, very gravelly loam	GC, GC-GM, SC, SC-SM	A-1, A-2, A-4	10-60	15-60	45-80	40-75	35-60	15-40	25-30	5-10
	10-19	Extremely gravelly sandy loam, extremely cobbly loam	SC-SM, SC, GC-GM, GC	A-1, A-2, A-4	10-60	15-60	45-80	40-75	35-60	15-40	25-30	5-10
	19-23	Unweathered bedrock			---	---	---	---	---	---	---	---
	Rock outcrop----	0-60	Unweathered bedrock			---	---	---	---	---	---	---
336: Whitecross, south aspect---	0-1	Slightly decomposed plant material	PT		0	0	100	100	---	---	---	---
	1-4	Very stony sandy loam	SC-SM, SC, GC-GM, GC	A-1, A-2	25-60	15-40	45-90	40-85	25-60	15-35	25-30	5-10
	4-10	Very stony sandy loam, very gravelly loam	GC, GC-GM, SC, SC-SM	A-1, A-2, A-4	10-60	15-60	45-80	40-75	35-60	15-40	25-30	5-10
	10-19	Extremely gravelly sandy loam, extremely cobbly loam	SC-SM, SC, GC-GM, GC	A-1, A-2, A-4	10-60	15-60	45-80	40-75	35-60	15-40	25-30	5-10
	19-23	Unweathered bedrock			---	---	---	---	---	---	---	---
	Rock outcrop----	0-60	Unweathered bedrock			---	---	---	---	---	---	---
337: Whitecross-----	0-1	Slightly decomposed plant material	PT		0	0	100	100	---	---	---	---
	1-4	Very stony sandy loam	GC, GC-GM, SC, SC-SM	A-1, A-2	25-60	15-40	45-90	40-85	25-60	15-35	25-30	5-10
	4-10	Very stony sandy loam, very gravelly loam	SC-SM, SC, GC-GM, GC	A-1, A-2, A-4	10-60	15-60	45-80	40-75	35-60	15-40	25-30	5-10
	10-19	Extremely gravelly sandy loam, extremely cobbly loam	GC, SC-SM, SC, GC-GM	A-1, A-2, A-4	10-60	15-60	45-80	40-75	35-60	15-40	25-30	5-10
	19-23	Unweathered bedrock			---	---	---	---	---	---	---	---
	Rock outcrop----	0-60	Unweathered bedrock			---	---	---	---	---	---	---

Table 23.--Engineering index properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In.				Pct.	Pct.					Pct.	
338: Henson-----	0-1	Slightly decomposed plant material	PT		0	0	100	100	---	---	---	---
	1-5	Very gravelly loam	GC, GC-GM	A-2, A-4	0-5	15-25	35-55	30-50	25-50	20-40	25-30	5-10
	5-13	Very cobbly loam, very cobbly clay loam	GC, GC-GM, SC, SC-SM	A-6, A-2, A-4	10-40	20-60	55-75	50-70	40-65	25-50	25-35	5-15
	13-25	Very cobbly loam, very stony sandy clay loam	GC-GM, GC, SC, SC-SM	A-6, A-2, A-4	10-60	20-60	55-75	50-70	40-65	25-50	25-35	5-15
	25-61	Extremely stony loam, extremely stony sandy loam, very cobbly sandy clay loam, extremely cobbly loam, extremely cobbly sandy loam	SC-SM, GC-GM, GC, SC	A-2, A-4	15-70	30-70	55-80	50-75	35-60	25-50	25-30	5-10
339: Henson-----	0-1	Slightly decomposed plant material	PT		0	0	100	100	---	---	---	---
	1-5	Very gravelly loam	GC-GM, GC	A-2, A-4	0-5	15-25	35-55	30-50	25-50	20-40	25-30	5-10
	5-13	Very cobbly loam, very cobbly clay loam	SC-SM, SC, GC-GM, GC	A-6, A-2, A-4	10-40	20-60	55-75	50-70	40-65	25-50	25-35	5-15
	13-25	Very cobbly loam, very stony sandy clay loam	GC, SC, GC-GM, SC-SM	A-6, A-2, A-4	10-60	20-60	55-75	50-70	40-65	25-50	25-35	5-15
	25-61	Extremely stony loam, very cobbly sandy clay loam, extremely stony sandy loam, extremely cobbly loam, extremely cobbly sandy loam	SC, GC, SC-SM, GC-GM	A-2, A-4	15-70	30-70	55-80	50-75	35-60	25-50	25-30	5-10
340: Moran-----	0-1	Moderately decomposed plant material	PT		0	0	100	100	---	---	---	---
	1-10	Very gravelly loam	GC, GC-GM	A-1, A-2, A-4	0-5	0-25	35-55	30-50	25-50	20-40	25-30	5-10
	10-27	Extremely gravelly loam, very gravelly loam, extremely stony sandy loam	GC, GC-GM, SC, SC-SM	A-1, A-2, A-4	5-50	10-30	30-80	25-60	20-50	15-40	25-30	5-10
	27-61	Extremely gravelly loam, extremely cobbly loam, extremely stony sandy loam	SC, SC-SM, GC, GC-GM	A-1, A-2, A-4	10-50	30-50	30-80	25-75	20-65	15-50	25-30	5-10

Table 23.--Engineering index properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In.				Pct.	Pct.					Pct.	
341: Moran-----	0-1	Moderately decomposed plant material	PT		0	0	100	100	---	---	---	---
	1-10	Very gravelly loam	GC, GC-GM	A-1, A-2, A-4	0-5	0-25	35-55	30-50	25-50	20-40	25-30	5-10
	10-27	Extremely gravelly loam, very gravelly loam, extremely stony sandy loam	SC-SM, SC, GC-GM, GC	A-1, A-2, A-4	5-50	10-30	30-80	25-60	20-50	15-40	25-30	5-10
	27-61	Extremely gravelly loam, extremely cobbly loam, extremely stony sandy loam	SC-SM, GC, GC-GM, SC	A-1, A-2, A-4	10-50	30-50	30-80	25-75	20-65	15-50	25-30	5-10
342: Telluride-----	0-1	Slightly decomposed plant material	PT		0	0	100	100	---	---	---	---
	1-7	Very cobbly loam	SC-SM, SC, CL-ML, CL	A-4	5-15	20-50	60-85	55-80	50-75	40-60	25-35	5-10
	7-12	Stony loam	CL-ML, SC, CL, SC-SM	A-4	5-20	5-30	75-85	70-80	60-75	45-60	25-35	5-10
	12-19	Very gravelly loam, very cobbly sandy loam, very stony loam	GC-GM, GC, SC, SC-SM	A-1, A-2, A-4	0-40	5-40	55-70	40-60	30-55	20-50	25-30	5-10
	19-22	Unweathered bedrock			---	---	---	---	---	---	---	---
Rock outcrop----	0-60	Unweathered bedrock			---	---	---	---	---	---	---	---
343: Telluride-----	0-1	Slightly decomposed plant material	PT		0	0	100	100	---	---	---	---
	1-7	Very cobbly loam	SC-SM, SC, CL, CL-ML	A-4	5-15	20-50	60-85	55-80	50-75	40-60	25-35	5-10
	7-12	Stony loam	CL, SC-SM, SC, CL-ML	A-4	5-15	5-30	75-85	70-80	60-75	45-60	25-35	5-10
	12-19	Very gravelly loam, very cobbly sandy loam, very stony loam	GC, GC-GM, SC-SM, SC	A-1, A-2, A-4	0-40	5-40	55-70	40-60	30-55	20-50	25-30	5-10
	19-22	Unweathered bedrock			---	---	---	---	---	---	---	---
Rock outcrop----	0-60	Unweathered bedrock			---	---	---	---	---	---	---	---
345: Papaspila-----	0-4	Loam	CL-ML, CL	A-4	0-5	0-5	95-100	95-100	80-95	60-75	25-30	5-10
	4-18	Loam	CL-ML, CL	A-4	0-5	0-5	95-100	95-100	80-95	60-75	25-30	5-10
	18-25	Gravelly loam	SC-SM, GC-GM, GC, SC	A-4	0-10	0-15	70-80	65-75	55-70	40-50	25-30	5-10
	25-33	Very cobbly silt loam	GM, ML	A-4	5-25	20-60	55-70	50-65	50-65	40-60	30-35	5-10
	33-39	Extremely cobbly clay loam, extremely stony clay loam	GC, CL	A-6	10-70	15-75	50-65	45-60	40-60	35-60	30-35	10-15
	39-54	Extremely cobbly clay loam, extremely stony clay loam, very cobbly loam	GC, CL	A-6	10-70	15-75	50-65	45-60	40-60	35-60	30-35	10-15
	54-60	Extremely stony clay loam	CL, GC	A-6	40-70	10-40	50-65	45-60	40-60	35-60	30-35	10-15

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index	
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200			
	In.				Pct.	Pct.					Pct.		
350: Flygare-----	0-1	Moderately decomposed plant material	PT		0	0	100	100	---	---	---	---	
	1-5	Gravelly loam	GC-GM, GC, SC, SC-SM	A-4	0-10	0-10	60-80	55-75	45-65	35-50	25-30	5-10	
	5-9	Cobbly loam	CL, CL-ML, SC, SC-SM	A-4	0-10	15-45	75-90	70-85	60-75	45-65	25-30	5-10	
	9-18	Extremely stony loam	SC-SM, SC, GC-GM, GC	A-2, A-4, A-1	30-70	10-60	30-70	25-65	20-60	15-50	25-30	5-10	
	18-23	Extremely stony loam	SC-SM, GC, GC-GM, SC	A-2, A-4, A-1	30-70	10-60	30-70	25-65	20-60	15-50	25-30	5-10	
	23-28	Very cobbly loam	SC-SM, GC, GC-GM, SC	A-2, A-4	5-20	25-70	50-75	45-70	40-65	30-50	25-30	5-10	
	28-38	Very cobbly clay loam	GC, SC, CL	A-6	5-20	25-70	50-85	45-75	40-70	35-65	30-35	10-15	
	38-47	Extremely cobbly clay loam	GC, GP-GC	A-2, A-6	10-30	35-75	30-65	25-60	25-55	10-50	30-35	10-15	
	47-55	Extremely cobbly clay loam	GC, GP-GC	A-2, A-6	10-30	35-75	30-65	25-60	25-55	10-50	30-35	10-15	
	55-61	Extremely cobbly clay loam	GP-GC, GC	A-2, A-6	10-30	35-75	30-65	25-60	25-55	10-50	30-35	10-15	
	Foidel-----	0-6	Loam	CL, CL-ML	A-4	0	0-5	95-100	90-95	75-90	55-70	25-30	5-10
6-17		Loam	CL, CL-ML	A-4	0	0-5	95-100	90-95	75-90	55-70	25-30	5-10	
17-26		Loam	CL-ML, CL	A-4	0	0-5	95-100	90-95	75-90	55-70	25-30	5-10	
26-32		Loam	CL, CL-ML	A-4	0	0-5	95-100	90-95	75-90	55-70	25-30	5-10	
32-38		Gravelly loam	CL, CL-ML, SC	A-4	0	0-5	60-80	55-75	50-70	35-55	25-30	5-10	
38-45		Clay loam, loam	CL, CL-ML	A-6, A-4	0	0-5	95-100	90-95	75-90	55-70	25-35	5-15	
45-56		Sandy clay loam, gravelly clay loam	CL, SC, CL- ML, SC-SM	A-4, A-6	0	0-15	60-95	55-90	50-75	40-60	25-35	5-15	
56-60		Sandy clay loam, gravelly clay loam	CL-ML, SC-SM, SC, CL	A-4, A-6	0	0-15	60-95	55-90	50-75	40-60	25-35	5-15	
355: Flygare-----		0-1	Moderately decomposed plant material	PT		0	0	100	100	---	---	---	---
		1-5	Gravelly loam	GC, GC-GM, SC, SC-SM	A-4	0-10	0-10	60-80	55-75	45-65	35-50	25-30	5-10
		5-9	Cobbly loam	CL, CL-ML, SC-SM, SC	A-4	0-10	15-45	75-90	70-85	60-75	45-65	25-30	5-10
	9-16	Extremely stony loam	SC-SM, SC, GC-GM, GC	A-1, A-2, A-4	30-70	10-60	30-70	25-65	20-60	15-50	25-30	5-10	
	16-23	Extremely stony loam	GC-GM, SC, SC-SM, GC	A-1, A-2, A-4	30-70	10-60	30-70	25-65	20-60	15-50	25-30	5-10	
	23-28	Very cobbly loam	GC, GC-GM, SC, SC-SM	A-2, A-4	5-20	25-70	50-75	45-70	40-65	30-50	25-30	5-10	
	28-38	Very cobbly clay loam	CL, GC, SC	A-6	5-20	25-70	50-85	45-75	40-70	35-65	30-35	10-15	
	38-47	Extremely cobbly clay loam	GC, GP-GC	A-2, A-6	10-30	35-75	30-65	25-60	25-55	10-50	30-35	10-15	
	47-55	Extremely cobbly clay loam	GC, GP-GC	A-2, A-6	10-30	35-75	30-65	25-60	25-55	10-50	30-35	10-15	
	55-61	Extremely cobbly clay loam	GP-GC, GC	A-2, A-6	10-30	35-75	30-65	25-60	25-55	10-50	30-35	10-15	
	Foidel-----	0-6	Loam	CL, CL-ML	A-4	0	0-5	95-100	90-95	75-90	55-70	25-30	5-10
6-17		Loam	CL, CL-ML	A-4	0	0-5	95-100	90-95	75-90	55-70	25-30	5-10	
17-26		Loam	CL-ML, CL	A-4	0	0-5	95-100	90-95	75-90				

Table 23.--Engineering index properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In.				Pct.	Pct.					Pct.	
360: Blacksnag-----	0-3	Very cobbly loam	GC-GM, SC-SM, SC, GC	A-2, A-4	5-20	20-50	45-75	40-70	35-65	25-50	25-30	5-10
	3-8	Very cobbly loam	GC, GC-GM, SC, SC-SM	A-2, A-4	5-20	20-50	45-75	40-70	35-65	25-50	25-30	5-10
	8-16	Extremely cobbly loam, extremely cobbly sandy clay loam	GC, GC-GM	A-1, A-2, A-4, A-6	10-25	30-65	25-60	20-55	20-50	15-40	25-35	5-15
	16-28	Extremely cobbly loam, extremely cobbly sandy clay loam	GC, GC-GM	A-1, A-2, A-4, A-6	10-25	30-65	25-60	20-55	20-50	15-40	25-35	5-15
	28-36	Very cobbly sandy loam, very cobbly sandy clay loam	GC, GC-GM, SC, SC-SM	A-1, A-2	5-20	20-50	45-75	40-70	25-60	15-35	25-35	5-15
	36-49	Very cobbly sandy clay loam	SC-SM, SC, GC-GM, GC	A-1, A-2	5-20	20-50	45-75	40-70	25-60	15-35	25-35	5-15
	49-60	Very cobbly sandy clay loam	GC, GC-GM, SC, SC-SM	A-1, A-2	5-20	20-50	45-75	40-70	25-60	15-35	25-35	5-15
Peeler-----	0-2	Moderately decomposed plant material	PT		0	0	100	100	---	---	---	---
	2-5	Silt loam	ML	A-4	0	0-5	90-95	85-90	75-90	65-80	30-35	5-10
	5-10	Silt loam	ML	A-4	0	0-5	90-95	85-90	75-90	65-80	30-35	5-10
	10-18	Loam	CL, CL-ML	A-4	0	0-5	90-95	85-90	70-85	50-65	25-30	5-10
	18-24	Cobbly loam	CL, CL-ML	A-4	0	15-30	80-100	75-95	70-90	50-65	25-30	5-10
	24-35	Stony clay loam, stony loam	CL, CL-ML	A-6, A-4	10-35	10-30	80-90	75-85	70-80	50-65	25-35	5-15
	35-44	Clay loam, loam	CL-ML, CL	A-4, A-6	0-15	0-15	85-95	80-90	70-90	50-70	25-35	5-15
	44-62	Clay loam, loam	CL, CL-ML	A-4, A-6	0-15	0-15	85-95	80-90	70-90	50-70	25-35	5-15
361: Blacksnag-----	0-3	Very cobbly loam	GC, GC-GM, SC, SC-SM	A-2, A-4	5-20	20-50	45-75	40-70	35-65	25-50	25-30	5-10
	3-8	Very cobbly loam	GC, GC-GM, SC, SC-SM	A-2, A-4	5-20	20-50	45-75	40-70	35-65	25-50	25-30	5-10
	8-16	Extremely cobbly loam, extremely cobbly sandy clay loam	GC, GC-GM	A-1, A-2, A-4, A-6	10-25	30-65	25-60	20-55	20-50	15-40	25-35	5-15
	16-28	Extremely cobbly loam, extremely cobbly sandy clay loam	GC-GM, GC	A-1, A-2, A-4, A-6	10-25	30-65	25-60	20-55	20-50	15-40	25-35	5-15
	28-36	Very cobbly sandy loam, very cobbly sandy clay loam	SC-SM, GC-GM, SC, GC	A-1, A-2	5-20	20-50	45-75	40-70	25-60	15-35	25-35	5-15
	36-49	Very cobbly sandy clay loam	GC, GC-GM, SC, SC-SM	A-1, A-2	5-20	20-50	45-75	40-70	25-60	15-35	25-35	5-15
	49-60	Very cobbly sandy clay loam	GC, GC-GM, SC, SC-SM	A-1, A-2	5-20	20-50	45-75	40-70	25-60	15-35	25-35	5-15
Peeler-----	0-2	Moderately decomposed plant material	PT		0	0	100	100	---	---	---	---
	2-5	Silt loam	ML	A-4	0	0-5	90-95	85-90	75-90	65-80	30-35	5-10
	5-10	Silt loam	ML	A-4	0	0-5	90-95	85-90	75-90	65-80	30-35	5-10
	10-18	Loam	CL, CL-ML	A-4	0	0-5	90-95	85-90	70-85	50-65	25-30	5-10
	18-24	Cobbly loam	CL, CL-ML	A-4	0	15-30	80-100	75-95	70-90	50-65	25-30	5-10
	24-35	Stony clay loam, stony loam	CL-ML, CL	A-6, A-4	10-35	10-30	80-90	75-85	70-80	50-65	25-35	5-15
	35-44	Clay loam, loam	CL, CL-ML	A-4, A-6	0-15	0-15	85-95	80-90	70-90	50-70	25-35	5-15
	44-62	Clay loam, loam	CL, CL-ML	A-4, A-6	0-15	0-15	85-95	80-90	70-90	50-70	25-35	5-15

[illegible]

Table 23.--Engineering index properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
					Pct.	Pct.						
376: Needleton-----	In.											
	0-2	Slightly decomposed plant material	PT		0	0	100	100	---	---	---	---
	2-16	Loam	CL, CL-ML	A-4	0-10	0-10	85-100	80-100	70-90	50-70	25-30	5-10
	16-26	Very cobbly sandy clay loam, extremely cobbly clay loam, very cobbly loam, very cobbly sandy loam	CL-ML, CL, SC, SC-SM	A-2, A-4	0-15	25-60	50-90	45-85	40-75	25-60	25-30	5-10
	26-48	Very cobbly sandy clay loam, extremely stony loam, very stony sandy clay loam, very cobbly clay loam	CL-ML, SC-SM, SC, GC, CL, GC-GM	A-6, A-2, A-4	15-50	15-50	45-90	40-85	30-75	20-65	25-35	5-15
378: Needleton-----	48-62	Very cobbly clay loam	CL-ML, GC-GM, SC, GC, CL, SC-SM	A-6, A-2, A-4	15-25	20-50	45-90	40-85	30-75	20-65	25-35	5-15
	0-2	Slightly decomposed plant material	PT		0	0	100	100	---	---	---	---
	2-16	Loam	CL-ML, CL	A-4	0-10	0-10	85-100	80-100	70-90	50-70	25-30	5-10
	16-26	Very cobbly sandy clay loam, extremely cobbly clay loam, very cobbly loam, very cobbly sandy loam	CL-ML, SC-SM, SC, CL	A-2, A-4	0-15	25-60	50-90	45-85	40-75	25-60	25-30	5-10
	26-48	Very cobbly sandy clay loam, extremely stony loam, very stony sandy clay loam, very cobbly clay loam	CL-ML, CL, SC-SM, GC- GM, SC, GC	A-6, A-2, A-4	15-50	15-50	45-90	40-85	30-75	20-65	25-35	5-15
Haviland-----	48-62	Very cobbly clay loam	SC-SM, SC, GC-GM, GC, CL, CL-ML	A-6, A-2, A-4	15-25	20-50	45-90	40-85	30-75	20-65	25-35	5-15
	0-1	Slightly decomposed plant material	PT		0	0	100	100	---	---	---	---
	1-6	Loam	CL-ML, CL	A-4	0	0-10	90-100	80-100	70-90	50-75	25-30	5-10
	6-19	Loam	CL, CL-ML	A-4	0	0-10	90-100	80-100	70-90	50-75	25-30	5-10
	19-33	Clay loam, sandy clay loam, loam	CL, CL-ML	A-6, A-4	0-5	0-10	90-100	80-100	70-90	50-75	25-35	5-15
	33-61	Gravelly clay loam, cobbly clay loam, gravelly sandy clay loam	GC-GM, CL, SC-SM, CL- ML, SC	A-2, A-4, A-6	0-10	5-30	60-80	55-75	50-75	30-60	25-35	5-15

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In.				Pct.	Pct.					Pct.	
380: Snowdon-----	0-2	Slightly decomposed plant material	PT		0	0	100	100	---	---	---	---
	2-6	Loam	CL	A-4	0	0-10	85-100	80-95	75-85	50-65	25-30	5-10
	6-13	Very stony sandy loam, very cobbly sandy loam, stony sandy loam, stony loam	SC-SM, GC, SC, GC-GM	A-1, A-2, A-4	15-50	10-60	45-90	40-85	25-60	15-45	25-30	5-10
	13-20	Very stony loam, extremely cobbly sandy clay loam, very cobbly clay loam	GC, GC-GM, SC, SC-SM	A-2, A-4, A-6	15-40	20-60	45-90	40-85	30-75	15-50	25-35	5-15
	20-24	Unweathered bedrock			---	---	---	---	---	---	---	---
Rock outcrop----	0-60	Unweathered bedrock			---	---	---	---	---	---	---	---
381: Needleton-----	0-2	Slightly decomposed plant material	PT		0	0	100	100	---	---	---	---
	2-16	Stony loam	SC-SM, CL-ML, CL, SC	A-4	10-40	10-30	75-90	70-85	60-80	45-65	25-30	5-10
	16-26	Very cobbly sandy clay loam, extremely cobbly clay loam, very cobbly loam, very cobbly sandy loam	CL, CL-ML, SC, SC-SM	A-2, A-4	0-15	25-60	50-90	45-85	40-75	25-60	25-30	5-10
	26-48	Very cobbly sandy clay loam, extremely stony loam, very stony sandy clay loam, very cobbly clay loam	GC, CL, SC, SC-SM, GC- GM, CL-ML	A-6, A-2, A-4	15-50	15-50	45-90	40-85	30-75	20-65	25-35	5-15
	48-62	Very cobbly clay loam	SC-SM, CL-ML, GC-GM, SC, GC, CL	A-6, A-2, A-4	15-25	20-50	45-90	40-85	30-75	20-65	25-35	5-15
Snowdon-----	0-2	Slightly decomposed plant material	PT		0	0	100	100	---	---	---	---
	2-6	Very stony loam	GC-GM, GC, CL, SC	A-2, A-4	25-60	5-40	45-90	40-85	35-80	25-65	25-30	5-10
	6-13	Stony sandy loam, very stony sandy loam, very cobbly sandy loam	GC, GC-GM, SC, SC-SM	A-1, A-2	15-50	10-60	45-90	40-85	25-60	20-35	25-30	5-10
	13-20	Very stony loam, extremely stony sandy clay loam, very cobbly clay loam	GC, GC-GM, SC, SC-SM	A-2, A-4, A-6	15-50	20-60	45-90	40-85	30-75	15-50	25-35	5-15
	20-24	Unweathered bedrock			---	---	---	---	---	---	---	---
Rock outcrop----	0-60	Unweathered bedrock			---	---	---	---	---	---	---	---

Table 23.--Engineering index properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In.				Pct.	Pct.					Pct.	
382: Needleton-----	0-2	Slightly decomposed plant material	PT		0	0	100	100	---	---	---	---
	2-16	Stony loam	CL, SC, CL- ML, SC-SM	A-4	10-40	10-30	75-90	70-85	60-80	45-65	25-30	5-10
	16-26	Very cobbly sandy clay loam, extremely cobbly clay loam, very cobbly loam, very cobbly sandy loam	SC-SM, CL-ML, CL, SC	A-2, A-4	0-15	25-60	50-90	45-85	40-75	25-60	25-30	5-10
	26-48	Very cobbly sandy clay loam, extremely stony loam, very stony sandy clay loam, very cobbly clay loam	SC, GC-GM, GC, CL, SC- SM, CL-ML	A-6, A-2, A-4	15-50	15-50	45-90	40-85	30-75	20-65	25-35	5-15
	48-62	Very cobbly clay loam	CL-ML, CL, GC, GC-GM, SC, SC-SM	A-6, A-2, A-4	15-25	20-50	45-90	40-85	30-75	20-65	25-35	5-15
Snowdon-----	0-2	Slightly decomposed plant material	PT		0	0	100	100	---	---	---	---
	2-6	Very stony loam	SC, GC-GM, GC, CL	A-2, A-4	25-60	5-40	45-90	40-85	35-80	25-65	25-30	5-10
	6-13	Stony sandy loam, very stony sandy loam, very cobbly sandy loam	SC, GC-GM, GC, SC-SM	A-1, A-2	15-50	10-60	45-90	40-85	25-60	20-35	25-30	5-10
	13-20	Very stony loam, extremely stony sandy clay loam, very cobbly clay loam	SC, GC-GM, GC, SC-SM	A-2, A-4, A-6	15-50	20-60	45-90	40-85	30-75	15-50	25-35	5-15
	20-24	Unweathered bedrock			---	---	---	---	---	---	---	---
383: Haviland-----	0-1	Slightly decomposed plant material	PT		0	0	100	100	---	---	---	---
	1-6	Loam	CL, CL-ML	A-4	0	0-10	90-100	80-100	70-90	50-75	25-30	5-10
	6-19	Loam	CL-ML, CL	A-4	0	0-10	90-100	80-100	70-90	50-75	25-30	5-10
	19-33	Clay loam, sandy clay loam, loam	CL-ML, CL	A-6, A-4	0-5	0-10	90-100	80-100	70-90	50-75	25-35	5-15
	33-61	Gravelly clay loam, cobbly clay loam, gravelly sandy clay loam	CL-ML, SC-SM, SC, GC-GM, CL	A-2, A-4, A-6	0-10	5-30	60-80	55-75	50-75	30-60	25-35	5-15

Table 23.--Engineering index properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In.				Pct.	Pct.					Pct.	
383: Needleton-----	0-2	Slightly decomposed plant material	PT		0	0	100	100	---	---	---	---
	2-16	Stony loam	SC-SM, SC, CL, CL-ML	A-4	10-40	10-30	75-90	70-85	60-80	45-65	25-30	5-10
	16-26	Very cobbly sandy clay loam, extremely cobbly clay loam, very cobbly loam, very cobbly sandy loam	CL, SC-SM, CL-ML, SC	A-2, A-4	0-15	25-60	50-90	45-85	40-75	25-60	25-30	5-10
	26-48	Very cobbly sandy clay loam, extremely stony loam, very stony sandy clay loam, very cobbly clay loam	CL-ML, CL, GC, GC-GM, SC-SM, SC	A-4, A-6, A-2	15-50	15-50	45-90	40-85	30-75	20-65	25-35	5-15
	48-62	Very cobbly clay loam	CL-ML, CL, GC, GC-GM, SC, SC-SM	A-6, A-2, A-4	15-25	20-50	45-90	40-85	30-75	20-65	25-35	5-15
386: Needleton-----	0-2	Slightly decomposed plant material	PT		0	0	100	100	---	---	---	---
	2-16	Stony loam	CL, CL-ML, SC, SC-SM	A-4	10-40	10-30	75-90	70-85	60-80	45-65	25-30	5-10
	16-26	Very cobbly sandy clay loam, extremely cobbly clay loam, very cobbly loam, very cobbly sandy loam	SC-SM, SC, CL, CL-ML	A-2, A-4	0-15	25-60	50-90	45-85	40-75	25-60	25-30	5-10
	26-48	Very cobbly sandy clay loam, extremely stony loam, very stony sandy clay loam, very cobbly clay loam	SC-SM, SC, CL-ML, CL, GC-GM, GC	A-6, A-2, A-4	15-50	15-50	45-90	40-85	30-75	20-65	25-35	5-15
	48-62	Very cobbly clay loam	SC-SM, CL-ML, CL, GC, GC- GM, SC	A-6, A-2, A-4	15-25	20-50	45-90	40-85	30-75	20-65	25-35	5-15
387: Frisco-----	0-2	Slightly decomposed plant material	PT		0	0	100	100	---	---	---	---
	2-5	Stony loam	SC-SM, SC, CL-ML, CL	A-4	10-40	5-25	80-95	70-90	60-70	45-60	25-30	5-10
	5-11	Stony loam	SC, SC-SM, CL-ML, CL	A-4	5-40	5-25	80-95	70-90	60-70	45-60	25-30	5-10
	11-19	Cobbly loam, stony loam	CL, SC-SM, SC, CL-ML	A-4	5-35	5-35	80-95	75-90	60-80	45-65	25-30	5-10
	19-48	Very cobbly clay loam, extremely stony sandy clay loam, extremely stony loam	GC, SC-SM, GC-GM, SC	A-1, A-2, A- 4, A-6	25-60	20-50	35-80	25-70	20-55	15-50	25-35	5-15
	48-62	Extremely stony loam	SC, GC-GM, GC, SC-SM	A-1, A-2, A-4	30-65	15-40	35-80	25-70	20-55	15-50	25-30	5-10

Table 23.--Engineering index properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In.				Pct.	Pct.					Pct.	
387: Quazar-----	0-12	Very cobbly loam	CL, GC, SC, SC-SM	A-2, A-4	0-25	20-60	45-90	40-85	35-80	25-65	25-30	5-10
	12-26	Very gravelly clay loam, extremely gravelly clay loam, very gravelly sandy clay loam, extremely cobbly clay loam, extremely cobbly sandy clay loam	SC, GC-GM, SC-SM, CL, CL-ML, GC	A-4, A-2, A-6	0-20	15-65	30-75	25-70	15-65	10-60	25-35	5-15
	26-60	Extremely gravelly clay loam	GC-GM, GC	A-2	0-20	15-35	15-30	10-25	10-25	5-20	30-35	10-15
388: Frisco-----	0-2	Slightly decomposed plant material	PT		0	0	100	100	---	---	---	---
	2-5	Cobbly loam	CL, CL-ML, SC, SC-SM	A-4	0-10	15-40	80-95	70-90	60-80	45-65	25-30	5-10
	5-11	Cobbly loam	SC, CL-ML, CL, SC-SM	A-4	5-10	15-40	80-95	70-90	60-80	45-65	25-30	5-10
	11-19	Cobbly loam, stony loam	CL, CL-ML, SC, SC-SM	A-4	5-35	5-35	80-95	75-90	60-80	45-65	25-30	5-10
	19-48	Very cobbly clay loam, extremely stony sandy clay loam, extremely stony loam	GC, GC-GM, SC, SC-SM	A-1, A-2, A-4, A-6	25-60	20-50	35-80	25-70	20-55	15-50	25-35	5-15
	48-62	Extremely stony loam	SC, GC-GM, GC, SC-SM	A-1, A-2, A-4	30-65	15-40	35-80	25-70	20-55	15-50	25-30	5-10
Quazar-----	0-12	Very cobbly loam	GC, SC, SC-SM, CL	A-2, A-4	0-25	20-60	45-90	40-85	35-80	25-65	25-30	5-10
	12-26	Very gravelly clay loam, extremely gravelly clay loam, very gravelly sandy clay loam, extremely cobbly clay loam, extremely cobbly sandy clay loam	CL, SC-SM, GC-GM, GC, SC, CL-ML	A-4, A-2, A-6	0-20	15-65	30-75	25-70	15-65	10-60	25-35	5-15
	26-60	Extremely gravelly clay loam	GC-GM, GC	A-2	0-20	15-35	15-30	10-25	10-25	5-20	30-35	10-15
389: Seitz-----	0-2	Moderately decomposed plant material	PT		0	0	100	100	---	---	---	---
	2-4	Gravelly loam	GC, GC-GM, SC, SC-SM	A-4	0-10	0-15	60-80	55-75	50-70	35-50	25-30	5-10
	4-11	Very stony loam	SC, SC-SM	A-4, A-2	25-50	20-40	70-85	60-80	45-65	30-50	25-30	5-10
	11-18	Very stony clay loam, very stony loam	SC, CL, CL-ML, SC-SM	A-4, A-2, A-6	25-50	20-40	70-85	60-80	45-70	30-60	25-40	5-20
	18-42	Extremely stony clay, very cobbly clay, very stony clay loam, very cobbly clay loam	CH, CL, GC	A-6, A-7	15-65	15-55	55-80	50-70	40-65	35-60	35-60	15-35
	42-62	Extremely stony clay loam, very cobbly sandy clay loam	GC, SC, CL	A-2, A-6	15-65	15-55	45-80	40-75	35-70	30-60	30-40	10-20

Table 23.--Engineering index properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In.				Pct.	Pct.					Pct.	
390: Clayburn-----	0-5	Loam	CL-ML, CL	A-4	0	0-5	90-100	80-95	70-90	60-75	25-30	5-10
	5-13	Loam	CL-ML, CL	A-4	0	0-5	90-100	80-95	70-90	60-75	25-30	5-10
	13-18	Loam, clay loam, sandy clay loam	CL, CL-ML, SC, SC-SM	A-4, A-6	0-10	0-10	90-100	80-100	70-90	45-75	25-35	5-15
	18-36	Loam, clay loam, sandy clay loam	SC-SM, CL, SC, CL-ML	A-4, A-6	0-10	0-10	90-100	80-100	70-90	45-75	25-35	5-15
	36-48	Loam, clay loam, sandy clay loam	SC-SM, CL-ML, SC, CL	A-4, A-6	0-10	0-10	90-100	80-100	70-90	45-75	25-35	5-15
	48-60	Sandy clay loam, clay loam	CL, SC, CL- ML, SC-SM	A-6, A-2, A-4	0-5	0-5	85-95	80-90	60-75	30-60	25-35	5-15
Heisspitz-----	0-9	Loam	CL, CL-ML	A-4	0	0-10	90-100	85-100	75-95	55-75	25-30	5-10
	9-14	Loam, clay loam	CL-ML, CL	A-4, A-6	0	0-10	90-100	85-100	75-100	55-80	25-35	5-15
	14-18	Unweathered bedrock			---	---	---	---	---	---	---	---
391: Runlett-----	0-14	Loam	CL-ML, CL	A-4	0	0-10	90-100	85-100	70-90	50-70	25-30	5-10
	14-19	Loam	CL, CL-ML	A-4	0	0-10	90-100	85-100	70-90	50-70	25-30	5-10
	19-22	Clay loam	CL	A-6	0	0-10	90-100	85-100	80-100	65-80	35-40	15-20
	22-27	Cobbly clay loam, clay loam, clay	CL	A-6, A-7	0-10	0-20	90-100	85-100	75-100	65-95	35-50	15-25
	27-31	Unweathered bedrock			---	---	---	---	---	---	---	---
Sessions-----	0-3	Loam	CL, CL-ML	A-4	0	0-5	90-100	85-100	55-90	50-75	25-30	5-10
	3-11	Loam	CL, CL-ML	A-4	0	0-5	90-100	85-100	55-90	50-75	25-30	5-10
	11-19	Clay loam	CL	A-6	0	0-10	90-100	85-100	75-90	60-75	30-40	10-20
	19-34	Clay loam, clay	CL	A-6, A-7	0	0-10	85-100	80-100	70-95	60-90	35-45	15-20
	34-48	Clay loam, clay	CL	A-6, A-7	0	0-10	85-100	80-100	70-95	60-90	35-45	15-20
	48-60	Clay loam, gravelly clay loam, gravelly sandy clay loam	SC-SM, SC, CL, CL-ML	A-2, A-4, A-6	0	0-15	60-80	55-75	45-70	20-60	25-35	5-15
392: Runlett-----	0-14	Loam	CL, CL-ML	A-4	0	0-10	90-100	85-100	70-90	50-70	25-30	5-10
	14-19	Loam	CL-ML, CL	A-4	0	0-10	90-100	85-100	70-90	50-70	25-30	5-10
	19-22	Clay loam	CL	A-6	0	0-10	90-100	85-100	80-100	65-80	35-40	15-20
	22-27	Cobbly clay loam, clay loam, clay	CL	A-6, A-7	0-10	0-20	90-100	85-100	75-100	65-95	35-50	15-25
	27-31	Unweathered bedrock			---	---	---	---	---	---	---	---
Needleton-----	0-2	Slightly decomposed plant material	PT		0	0	100	100	---	---	---	---
	2-16	Loam	CL, CL-ML	A-4	0-10	0-10	85-100	80-100	70-90	50-70	25-30	5-10
	16-26	Very cobbly sandy clay loam, extremely cobbly clay loam, very cobbly loam, very cobbly sandy loam	SC-SM, SC, CL, CL-ML	A-2, A-4	0-15	25-60	50-90	45-85	40-75	25-60	25-30	5-10
	26-48	Very cobbly sandy clay loam, extremely stony loam, very stony sandy clay loam, very cobbly clay loam	CL, GC, GC- GM, SC-SM, CL-ML, SC	A-6, A-2, A-4	15-50	15-50	45-90	40-85	30-75	20-65	25-35	5-15
	48-62	Very cobbly clay loam	CL, SC-SM, SC, GC-GM, GC, CL-ML	A-6, A-2, A-4	15-25	20-50	45-90	40-85	30-75	20-65	25-35	5-15

Table 23.--Engineering index properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
					Pct.	Pct.						
392: Sessions-----	In.											
	0-3	Loam	CL-ML, CL	A-4	0	0-5	90-100	85-100	55-90	50-75	25-30	5-10
	3-11	Loam	CL, CL-ML	A-4	0	0-5	90-100	85-100	55-90	50-75	25-30	5-10
	11-19	Clay loam	CL	A-6	0	0-10	90-100	85-100	75-90	60-75	30-40	10-20
	19-34	Clay loam, clay	CL	A-6, A-7	0	0-10	85-100	80-100	70-95	60-90	35-45	15-20
	34-48	Clay loam, clay	CL	A-6, A-7	0	0-10	85-100	80-100	70-95	60-90	35-45	15-20
	48-60	Clay loam, gravelly clay loam, gravelly sandy clay loam	SC-SM, SC, CL, CL-ML	A-2, A-4, A-6	0	0-15	60-90	55-85	45-75	20-60	25-35	5-15
393: Heisspitz-----	0-9	Loam	CL-ML, CL	A-4	0	0-10	90-100	85-100	75-95	55-75	25-30	5-10
	9-14	Loam, clay loam	CL, CL-ML	A-4, A-6	0	0-10	90-100	85-100	75-100	55-80	25-35	5-15
	14-18	Unweathered bedrock			---	---	---	---	---	---	---	---
Sessions-----	0-3	Loam	CL, CL-ML	A-4	0	0-5	90-100	85-100	55-90	50-75	25-30	5-10
	3-11	Loam	CL, CL-ML	A-4	0	0-5	90-100	85-100	55-90	50-75	25-30	5-10
	11-19	Clay loam	CL	A-6	0	0-10	90-100	85-100	75-90	60-75	30-40	10-20
	19-34	Clay loam, clay	CL	A-6, A-7	0	0-10	85-100	80-100	70-95	60-90	35-45	15-20
	34-48	Clay loam, clay	CL	A-6, A-7	0	0-10	85-100	80-100	70-95	60-90	35-45	15-20
	48-60	Clay loam, gravelly clay loam, gravelly sandy clay loam	SC-SM, SC, CL-ML, CL	A-2, A-4, A-6	0	0-15	60-90	55-85	45-75	20-60	25-35	5-15
	0-60	Unweathered bedrock			---	---	---	---	---	---	---	---
394: Clayburn-----	0-5	Loam	CL-ML, CL	A-4	0	0-5	90-100	80-95	70-90	60-75	25-30	5-10
	5-13	Loam	CL-ML, CL	A-4	0	0-5	90-100	80-95	70-90	60-75	25-30	5-10
	13-18	Loam, clay loam, sandy clay loam	CL, SC, CL- ML, SC-SM	A-4, A-6	0-10	0-10	90-100	80-100	70-90	45-75	25-35	5-15
	18-36	Loam, clay loam, sandy clay loam	SC, CL, CL- ML, SC-SM	A-4, A-6	0-10	0-10	90-100	80-100	70-90	45-75	25-35	5-15
	36-48	Loam, clay loam, sandy clay loam	CL-ML, SC, CL, SC-SM	A-4, A-6	0-10	0-10	90-100	80-100	70-90	45-75	25-35	5-15
	48-60	Sandy clay loam, clay loam	SC-SM, SC, CL, CL-ML	A-6, A-2, A-4	0-5	0-5	85-95	80-90	60-75	30-60	25-35	5-15
	0-9	Loam	CL, CL-ML	A-4	0	0-10	90-100	85-100	75-95	55-75	25-30	5-10
Heisspitz-----	9-14	Loam, clay loam	CL-ML, CL	A-4, A-6	0	0-10	90-100	85-100	75-100	55-80	25-35	5-15
	14-18	Unweathered bedrock			---	---	---	---	---	---	---	---
	395: Scout-----	0-1	Slightly decomposed plant material	PT		0	0	100	100	---	---	---
1-2		Silt loam	ML	A-4	0-5	0-5	85-100	80-100	75-95	60-90	30-35	5-10
2-9		Very cobbly silt loam, very cobbly loam	CL, CL-ML, GC, SC	A-2, A-4	0-25	20-70	45-90	40-85	35-85	25-75	25-30	5-10
9-17		Very cobbly loam	CL, SC, GC, CL-ML	A-2, A-4	0-25	20-70	45-90	40-85	35-80	25-65	25-30	5-10
17-61		Very gravelly loam, very cobbly loam	CL-ML, SM, ML, GM	A-2, A-4	0-25	20-70	45-90	40-85	35-80	25-65	20-25	NP-5
396: Scout-----	0-1	Slightly decomposed plant material	PT		0	0	100	100	---	---	---	---
	1-2	Silt loam	ML	A-4	0-5	0-5	85-100	80-100	75-95	60-90	30-35	5-10
	2-9	Very cobbly silt loam, very cobbly loam	CL, CL-ML, GC, SC	A-2, A-4	0-25	20-70	45-90	40-85	35-85	25-75	25-30	5-10
	9-17	Very cobbly loam	CL-ML, GC, SC, CL	A-2, A-4	0-25	20-70	45-90	40-85	35-80	25-65	25-30	5-10
	17-61	Very gravelly loam, very cobbly loam	SM, CL-ML, ML, GM	A-2, A-4	0-25	20-70	45-90	40-85	35-80	25-65	20-25	NP-5

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In.				Pct.	Pct.					Pct.	
399: Kite-----	0-1	Loam	CL, SC-SM, SC, CL-ML	A-4	0	0-5	90-100	85-95	70-90	45-65	25-30	5-10
	1-4	Sandy loam	SC, SC-SM	A-2, A-4	0	0-5	90-100	85-95	50-70	30-40	25-30	5-10
	4-9	Sandy clay loam	SC, SM, SC-SM	A-2, A-4	0	0-5	85-95	80-90	65-80	30-50	25-35	5-10
	9-14	Gravelly sandy loam, sandy loam	SC-SM, SM	A-1, A-2, A-4	0	5-10	70-95	60-90	35-60	20-40	20-25	NP-5
	14-18	Gravelly sandy loam, sandy loam	SC-SM, SM	A-1, A-2, A-4	0	0-10	80-95	75-90	35-60	20-40	20-25	NP-5
	18-22	Unweathered bedrock			---	---	---	---	---	---	---	---
Rock outcrop----	0-60	Unweathered bedrock			---	---	---	---	---	---	---	
450: Lostlake-----	0-2	Slightly decomposed plant material	PT		0	0	100	100	---	---	---	---
	2-6	Loam	CL-ML, CL	A-4	0	0-5	85-100	80-90	70-85	50-70	25-30	5-10
	6-15	Gravelly loam, gravelly sandy clay loam	GC, SC-SM, SC, GC-GM	A-4, A-2	0	0-10	60-80	55-75	40-60	25-45	25-30	5-10
	15-19	Unweathered bedrock			---	---	---	---	---	---	---	---
Rock outcrop----	0-60	Unweathered bedrock			---	---	---	---	---	---	---	
452: Dystrocryepts---	0-1	Gravelly sandy clay loam	SC-SM, SC, GC-GM, GC	A-2, A-4, A-1	0-5	0-5	60-80	55-75	45-70	20-40	25-30	5-10
	1-9	Gravelly sandy clay loam	SC-SM, SC, GC-GM, GC	A-2, A-4, A-1	0-5	0-5	60-80	55-75	45-70	20-40	25-30	5-10
	9-17	Gravelly sandy clay loam	SC, GC, GC- GM, SC-SM	A-2, A-4, A-1	0-5	0-5	60-80	55-75	45-70	20-40	25-30	5-10
	17-21	Unweathered bedrock			---	---	---	---	---	---	---	---
Rock outcrop----	0-60	Unweathered bedrock			---	---	---	---	---	---	---	
453: Sig-----	0-2	Slightly decomposed plant material	PT		0	0	100	100	---	---	---	---
	2-9	Gravelly loam	GC, CL-ML, SC, SC-SM, CL	A-4	0-5	5-25	60-80	55-75	50-70	35-55	25-30	5-10
	9-16	Very gravelly sandy clay loam, very gravelly loam, very gravelly sandy loam	GC-GM, GC	A-2, A-4	0-5	10-25	35-55	35-50	20-45	15-40	25-30	5-10
	16-20	Unweathered bedrock			---	---	---	---	---	---	---	---
Rock outcrop----	0-60	Unweathered bedrock			---	---	---	---	---	---	---	
Snowdon-----	0-2	Slightly decomposed plant material	PT		0	0	100	100	---	---	---	---
	2-6	Extremely stony loam	SC, GC-GM, CL, GC	A-2, A-4	25-70	15-40	45-90	40-85	35-80	20-65	25-30	5-10
	6-13	Stony sandy loam, very stony sandy loam, very cobbly sandy loam	SC-SM, SC, GC-GM, GC	A-1, A-2	15-50	10-60	45-90	40-85	25-60	15-35	25-30	5-10
	13-20	Very stony loam, extremely stony sandy clay loam, very cobbly clay loam	GC, SC-SM, GC-GM, SC	A-2, A-4, A-6	15-50	20-60	45-90	40-85	30-75	15-50	25-35	5-15
	20-24	Unweathered bedrock			---	---	---	---	---	---	---	---

Table 23.--Engineering index properties--Continued

[illegible]

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In.				Pct.	Pct.					Pct.	
500: Dolores-----	0-1	Slightly decomposed plant material	PT		0	0	100	100	---	---	---	---
	1-3	Loam	CL-ML, CL	A-4	0-5	0-10	90-100	85-100	75-95	50-75	25-30	5-10
	3-8	Loam	CL, CL-ML	A-4	0-5	0-10	90-100	85-100	75-95	50-75	25-30	5-10
	8-10	Extremely bouldery clay loam	GC	A-2, A-6	30-65	0-50	25-75	20-70	20-55	15-50	30-40	10-20
	10-15	Very cobbly clay loam, extremely bouldery clay loam, extremely stony clay loam	GC	A-2, A-6	10-65	0-60	25-75	20-70	20-55	15-50	30-40	10-20
	15-24	Extremely bouldery clay loam	GC	A-2, A-6	30-65	0-50	25-75	20-70	20-55	15-50	30-40	10-20
	24-45	Very stony clay loam, very cobbly clay loam, extremely stony clay	CH, GC, CL	A-2, A-6, A-7	25-65	10-60	25-75	20-75	15-65	15-60	30-60	10-35
	45-49	Extremely stony clay	CL, CH, GC	A-2, A-6, A-7	30-65	10-50	25-75	20-75	15-65	15-60	30-60	10-35
	49-61	Extremely stony clay, extremely stony clay loam	GC-GM, GC, CL	A-7, A-6, A-2	35-65	15-50	25-70	20-65	15-60	10-55	30-45	10-20
Fivepine-----	0-3	Flaggy loam	CL-ML, CL	A-4	10-30	10-20	85-95	80-90	75-85	55-70	25-30	5-10
	3-9	Flaggy clay loam	CL	A-6	10-30	10-20	85-95	80-90	80-90	65-75	30-40	10-20
	9-12	Flaggy clay, flaggy clay loam	CL	A-7, A-6	10-30	10-20	85-95	80-90	80-90	65-80	30-45	15-25
	12-15	Flaggy clay	CL	A-7	10-30	10-20	85-95	80-90	80-90	70-90	40-50	20-30
	15-19	Unweathered bedrock			---	---	---	---	---	---	---	---
501: Fivepine-----	0-3	Flaggy loam	CL, CL-ML	A-4	10-30	10-20	85-95	80-90	75-85	55-70	25-30	5-10
	3-9	Flaggy clay loam	CL	A-6	10-30	10-20	85-95	80-90	80-90	65-75	30-40	10-20
	9-12	Flaggy clay loam, flaggy clay	CL	A-6, A-7	10-30	10-20	85-95	80-90	80-90	65-80	30-45	15-25
	12-15 15-25	Flaggy clay Unweathered bedrock	CL	A-7	10-30 ---	10-20 ---	85-95 ---	80-90 ---	80-90 ---	70-90 ---	40-50 ---	20-30 ---
Nortez-----	0-3	Loam	CL, CL-ML	A-4	0	0-5	90-100	85-100	75-90	55-70	25-30	5-10
	3-10	Clay loam	CL	A-6	0	0-5	90-100	85-100	80-95	65-75	30-40	10-20
	10-32	Clay loam, clay	CL, CH	A-7	0	0-5	90-100	85-100	80-100	70-90	40-65	25-40
	32-42	Unweathered bedrock			---	---	---	---	---	---	---	---
503: Ormiston-----	0-7	Loam	CL, CL-ML	A-4	0-5	0-10	90-100	85-100	75-95	50-75	25-30	5-10
	7-24	Very stony clay loam, very stony clay, extremely stony clay loam	GC, CL, CH	A-2, A-6, A-7	25-50	20-50	50-85	40-80	40-75	30-65	30-65	10-40
	24-32	Stony clay loam, very stony clay	CL, GC, CH	A-2, A-6, A-7	15-50	10-50	50-85	40-80	40-75	30-65	30-65	10-40
	32-44	Stony clay loam, very stony clay loam	CL	A-6	10-45	15-30	75-90	70-85	65-85	50-70	30-40	10-20
	44-54	Unweathered bedrock			---	---	---	---	---	---	---	---

Table 23.--Engineering index properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In.				Pct.	Pct.					Pct.	
503: Fivepine-----	0-3	Flaggy loam	CL, CL-ML	A-4	10-30	10-20	85-95	80-90	75-85	55-70	25-30	5-10
	3-9	Flaggy clay loam	CL	A-6	10-30	10-20	85-95	80-90	80-90	65-75	30-40	10-20
	9-12	Flaggy clay loam, flaggy clay	CL	A-6, A-7	10-30	10-20	85-95	80-90	80-90	65-80	30-45	15-25
	12-15	Flaggy clay	CL	A-7	10-30	10-20	85-95	80-90	80-90	70-90	40-50	20-30
	15-25	Unweathered bedrock			---	---	---	---	---	---	---	---
504: Jemco-----	0-2	Silt loam	ML	A-4	0	0	95-100	90-100	80-90	65-80	30-35	5-10
	2-7	Silt loam	ML	A-4	0	0	95-100	90-100	80-90	65-80	30-35	5-10
	7-14	Loam, silt loam	ML, CL-ML	A-4	0	0-5	95-100	90-100	80-90	65-80	25-35	5-10
	14-22	Loam, silt loam	CL-ML, ML	A-4	0	0-5	95-100	90-100	80-90	65-80	25-35	5-10
	22-35	Clay loam, sandy clay loam	CL	A-6	0	0-5	95-100	90-100	80-90	65-80	30-35	10-15
	35-39	Clay loam, sandy clay loam	CL, SC	A-6	0	0-5	95-100	90-100	65-90	35-70	30-35	10-15
	39-49	Unweathered bedrock			---	---	---	---	---	---	---	---
Detra-----	0-16	Loam	CL, CL-ML	A-4	0	0-5	95-100	90-100	75-90	55-70	25-30	5-10
	16-30	Loam	CL-ML, CL	A-4	0	0-5	95-100	90-100	75-90	55-70	25-30	5-10
	30-43	Loam, clay loam	CL-ML, CL	A-4, A-6	0	0-5	95-100	90-100	80-90	55-80	25-35	5-15
	43-51	Loam, clay loam	CL-ML, CL	A-4, A-6	0	0-5	95-100	90-100	80-90	55-80	25-35	5-15
	51-57	Clay loam, sandy clay loam	SC, CL	A-6, A-4	0	0-5	95-100	85-100	70-90	40-75	30-35	5-15
	57-61	Unweathered bedrock			---	---	---	---	---	---	---	---
Beje-----	0-2	Loam	CL-ML, CL	A-4	0-5	0-5	95-100	90-95	75-90	55-70	25-30	5-10
	2-6	Loam	CL-ML, CL	A-4	0	0	90-95	85-90	70-85	50-70	25-30	5-10
	6-14	Loam, clay loam, sandy clay loam	CL-ML, CL	A-4, A-6	0	0	95-100	90-95	80-90	50-80	25-35	5-15
	14-24	Unweathered bedrock			---	---	---	---	---	---	---	---
505: Moento-----	0-2	Loam	CL-ML, CL	A-4	0	0	95-100	90-100	70-90	50-75	25-30	5-10
	2-6	Clay loam	CL	A-6	0	0	95-100	90-100	75-95	60-75	30-35	10-15
	6-21	Clay loam	CL	A-6	0	0	95-100	90-100	75-95	60-75	30-35	10-15
	21-30	Clay loam, sandy clay loam	SC, CL	A-6	0	0	95-100	90-100	65-95	35-75	25-35	10-20
	30-36	Sandy loam, sandy clay loam	SC, CL, SC-SM, CL-ML	A-2, A-4, A-6	0	0	95-100	90-100	50-85	30-55	25-35	5-15
	36-40	Unweathered bedrock			---	---	---	---	---	---	---	---
506: Moento-----	0-2	Loam	CL, CL-ML	A-4	0	0	95-100	90-100	70-90	50-75	25-30	5-10
	2-6	Clay loam	CL	A-6	0	0	95-100	90-100	75-95	60-75	30-35	10-15
	6-12	Clay loam	CL	A-6	0	0	95-100	90-100	70-95	60-75	25-35	10-20
	12-21	Clay loam	CL	A-6	0	0	95-100	90-100	70-95	60-75	25-35	10-20
	21-30	Clay loam, sandy clay loam	CL, SC	A-6	0	0	95-100	90-100	70-95	35-75	25-35	10-20
	30-36	Sandy loam, sandy clay loam	CL	A-2, A-4, A-6	0	0	95-100	90-100	50-85	30-55	25-35	5-15
	36-40	Unweathered bedrock			---	---	---	---	---	---	---	---
Detra-----	0-16	Loam	CL-ML, CL	A-4	0	0-5	95-100	90-100	75-90	55-70	25-30	5-10
	16-30	Loam	CL-ML, CL	A-4	0	0-5	95-100	90-100	75-90	55-70	25-30	5-10
	30-43	Loam, clay loam	CL, CL-ML	A-4, A-6	0	0-5	95-100	90-100	80-90	55-80	25-35	5-15
	43-51	Loam, clay loam	CL-ML, CL	A-4, A-6	0	0-5	95-100	90-100	80-90	55-80	25-35	5-15
	51-57	Clay loam, sandy clay loam	CL, SC	A-6, A-4	0	0-5	95-100	90-100	70-90	40-75	30-35	5-15
	57-61	Unweathered bedrock			---	---	---	---	---	---	---	---

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In.				Pct.	Pct.					Pct.	
506: Jemco-----	0-7	Silt loam	ML	A-4	0	0	95-100	90-100	80-90	65-80	30-35	5-10
	7-14	Loam, silt loam	CL-ML, CL	A-4	0	0-5	95-100	90-100	80-90	65-80	25-30	5-10
	14-22	Loam, silt loam	CL, CL-ML	A-4	0	0-5	95-100	90-100	80-90	65-80	25-30	5-10
	22-35	Clay loam, sandy clay loam	CL	A-6	0	0-5	95-100	90-100	80-90	65-80	30-35	10-15
	35-39	Clay loam, sandy clay loam	SC, CL	A-6	0	0-5	95-100	90-100	65-90	35-70	30-35	10-15
	39-43	Unweathered bedrock			---	---	---	---	---	---	---	---
508: Herm-----	0-6	Loam	CL, CL-ML	A-4	0	0-5	95-100	90-100	75-95	50-75	25-30	5-10
	6-13	Clay loam	CL	A-6	0	0-5	95-100	90-100	80-100	65-90	30-40	10-20
	13-17	Clay loam, clay	CL	A-6, A-7	0	0-5	95-100	90-100	80-100	65-95	35-50	15-25
	17-45	Clay loam, clay	CL	A-6, A-7	0	0-5	95-100	90-100	80-100	65-95	35-50	15-25
	45-60	Clay loam	CL	A-6	0-5	0-10	95-100	90-100	80-100	65-80	30-40	10-20
Pagoda-----	0-1	Slightly decomposed plant material	PT		0	0	100	100	---	---	---	---
	1-5	Loam	CL-ML, CL	A-4	0	0-5	90-100	85-100	70-90	60-75	25-30	5-10
	5-16	Clay, clay loam	CL	A-6, A-7	0	0-5	95-100	90-100	80-95	70-90	35-45	15-20
	16-21	Clay, clay loam	CL	A-6, A-7	0	0-5	95-100	90-100	80-95	70-90	35-45	15-20
	21-32	Clay loam, clay	CL	A-6, A-7	0	0-5	95-100	90-100	80-95	70-90	35-50	15-25
	32-61	Clay loam, clay	CL	A-6, A-7	0	0-5	95-100	90-100	80-95	70-90	30-50	10-20
509: Burnson, dry----	0-1	Slightly decomposed plant material	PT		0	0	100	100	---	---	---	---
	1-4	Loam	CL-ML	A-4	0	0-5	95-100	90-100	85-95	65-75	25-30	5-10
	4-8	Clay loam	CL	A-6, A-7	0	0-5	95-100	90-100	80-90	70-80	35-45	10-20
	8-18	Sandy clay, clay, clay loam	SC, CH, CL	A-6, A-7	0	0-5	85-100	80-100	70-90	45-80	35-60	15-35
	18-29	Sandy clay, clay, clay loam	CH, CL, SC	A-6, A-7	0	0-5	85-100	80-100	70-90	45-80	35-60	15-35
	29-44	Sandy clay loam, clay, clay loam	CL, SC	A-6, A-7	0	0-5	85-100	80-100	70-90	45-80	35-45	10-20
	44-54	Unweathered bedrock			---	---	---	---	---	---	---	---
510: Jemco-----	0-7	Loam	CL-ML, CL	A-4	0	0	95-100	90-100	80-90	65-80	25-30	5-10
	7-14	Loam, silt loam	CL, CL-ML	A-4	0	0	95-100	90-100	80-90	65-80	25-30	5-10
	14-22	Loam, silt loam	CL, CL-ML	A-4	0	0-5	95-100	90-100	80-90	65-80	25-30	5-10
	22-35	Clay loam, sandy clay loam	CL	A-6	0	0-5	95-100	90-100	80-90	65-80	30-35	10-15
	35-39	Clay loam, sandy clay loam	CL, SC	A-6	0	0-5	95-100	90-100	65-90	35-70	30-35	10-15
	39-43	Unweathered bedrock			---	---	---	---	---	---	---	---
Moento-----	0-2	Loam	CL, CL-ML	A-4	0	0	95-100	90-100	70-90	50-75	25-30	5-10
	2-6	Clay loam	CL	A-6	0	0	95-100	90-100	75-95	60-75	30-35	10-15

Table 23.--Engineering index properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In.				Pct.	Pct.					Pct.	
511: Granath-----	0-2	Loam	CL-ML, CL	A-4	0	0	95-100	95-100	90-100	60-75	25-30	5-10
	2-10	Loam	CL-ML, CL	A-4	0	0	95-100	95-100	90-100	60-75	25-30	5-10
	10-15	Clay loam, loam, silty clay loam	CL, CL-ML	A-6, A-4	0	0	100	100	95-100	70-90	25-35	5-15
	15-20	Clay loam, loam, silty clay loam	CL-ML, CL	A-6, A-4	0	0	100	100	95-100	70-90	25-35	5-15
	20-28	Sandy clay loam, clay loam, loam	CL-ML, CL	A-6, A-4	0	0	100	100	85-100	70-90	25-35	5-15
	28-40	Clay loam, loam, silty clay loam	CL, CL-ML	A-6, A-4	0	0	100	100	95-100	70-90	25-35	5-15
	40-49	Clay loam, loam, sandy clay loam	SC-SM, SC, CL, CL-ML	A-6, A-4	0	0	100	100	95-100	40-80	25-35	5-15
	49-60	Sandy clay loam, clay loam, loam	CL-ML, SC-SM, SC, CL	A-6, A-4	0	0	100	100	85-100	40-80	25-35	5-15
Fughes-----	0-1	Slightly decomposed plant material	PT		0	0	100	100	---	---	---	---
	1-8	Loam	CL-ML, CL	A-4	0-5	0-5	90-100	90-100	75-95	60-95	25-30	5-10
	8-27	Clay loam	CL	A-6	0-5	0-5	90-100	90-100	80-100	65-80	30-40	10-20
	27-45	Clay loam, clay	CL	A-7, A-6	0-5	0-10	90-100	90-100	80-100	70-90	35-50	15-25
	45-61	Clay loam, clay	CL, CH	A-7, A-6	0-5	0-5	90-100	90-100	80-100	70-90	35-60	20-40
512: Wetherill-----	0-6	Loam	CL-ML	A-4	0	0	100	100	85-95	60-75	25-30	5-10
	6-20	Loam, clay loam, silty clay loam	CL-ML, CL	A-6, A-4	0	0	100	100	85-95	60-75	25-35	5-15
	20-47	Loam, clay loam, sandy clay loam	CL-ML, CL	A-4, A-6	0	0	100	100	85-100	60-80	25-35	5-15
	47-60	Loam, sandy clay loam	CL-ML, CL	A-4	0	0	100	100	85-100	65-75	25-30	5-10
513: Maudrey-----	0-4	Loam	CL, CL-ML	A-4	0	0-5	95-100	90-100	75-95	55-75	25-30	5-10
	4-11	Loam	CL, CL-ML	A-4	0	0-5	95-100	90-100	75-95	55-75	25-30	5-10
	11-19	Loam	CL, CL-ML	A-4	0	0-5	95-100	90-100	75-95	55-75	25-30	5-10
	19-25	Loam	CL-ML, CL	A-4	0	0-5	95-100	90-100	75-95	55-75	25-30	5-10
	25-31	Loam	CL, CL-ML	A-4	0	0-5	95-100	90-100	75-95	55-75	25-30	5-10
	31-41	Clay, clay loam	CH, CL	A-6, A-7	0-5	0-5	90-100	90-100	80-100	60-90	35-60	15-35
	41-54	Clay, clay loam	CL, CL-ML	A-6, A-7	0-5	0-5	90-100	90-100	80-100	60-90	35-60	15-35
	54-60	Clay, clay loam	CL, CH	A-6, A-7	0-5	0-5	85-100	80-95	75-95	65-90	35-65	15-40
Tombac-----	0-1	Moderately decomposed plant material	PT		0	0	100	100	---	---	---	---
	1-3	Loam	CL, CL-ML	A-4	0	0-5	95-100	90-100	70-90	50-70	25-30	5-10
	3-12	Loam	CL, CL-ML	A-4	0	0-10	95-100	90-100	70-90	50-70	25-30	5-10
	12-16	Loam, clay loam	CL-ML, CL	A-4	0	0-5	95-100	90-100	70-90	50-70	25-30	5-10
	16-26	Clay, clay loam	CL, CH	A-6, A-7	0-5	0-5	85-100	80-100	75-95	60-90	35-60	15-35
	26-37	Clay, clay loam	CL, CH	A-6, A-7	0-5	0-5	85-100	80-100	75-95	60-90	35-60	15-35
	37-46	Clay, clay loam	CL, CH	A-6, A-7	0	0-5	85-100	80-100	75-95	60-90	35-60	15-35
	46-61	Clay, clay loam	CH, CL	A-6, A-7	0	0-5	85-100	80-100	75-95	60-90	35-60	15-35
525: Arabrab-----	0-3	Loam	CL, CL-ML	A-4	0	0-5	90-100	90-100	75-95	55-75	25-30	5-10
	3-7	Loam, clay loam	CL, CL-ML	A-4, A-6	0	0-5	90-100	90-100	80-95	60-80	25-35	5-15
	7-15	Cobbly loam, cobbly clay loam	CL, CL-ML, SC, SC-SM	A-4	0	15-30	65-85	65-75	55-70	40-60	25-30	5-10
	15-19	Unweathered bedrock			---	---	---	---	---	---	---	---
526: Lonecone-----	0-6	Loam	CL, CL-ML	A-4	0	0	95-100	95-100	80-95	55-75	25-30	5-10
	6-27	Loam, clay loam	CL-ML, CL	A-4, A-6	0	0	95-100	95-100	80-95	55-80	25-35	5-15
	27-30	Gravelly sandy clay loam, gravelly loam	SC, GC, GC- GM, SC-SM	A-4, A-6	0	0	60-85	50-80	45-70	35-50	25-35	5-15
	30-40	Weathered bedrock			---	---	---	---	---	---	---	---

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In.				Pct.	Pct.					Pct.	
527: Ormiston-----	0-7	Loam	CL-ML, CL	A-4	0-5	0-10	90-100	85-100	75-95	50-75	25-30	5-10
	7-24	Very stony clay loam, very stony clay, extremely stony clay loam	GC, CL, CH	A-2, A-6, A-7	25-50	20-50	50-85	40-80	40-75	30-65	30-65	10-40
	24-32	Stony clay loam, very stony clay	CH, GC, CL	A-2, A-6, A-7	10-50	10-40	50-85	40-80	40-75	30-65	30-65	10-40
	32-44 44-54	Stony clay loam Unweathered bedrock	CL	A-6	10-45 ---	15-30 ---	75-90 ---	70-85 ---	65-85 ---	50-70 ---	30-40 ---	10-20 ---
Beje-----	0-2	Loam	CL-ML, CL	A-4	0-5	0-5	95-100	90-95	75-90	55-70	25-30	5-10
	2-6	Loam	CL, CL-ML	A-4	0	0	90-95	85-90	70-85	50-70	25-30	5-10
	6-14	Loam, clay loam, sandy clay loam	CL, CL-ML	A-4, A-6	0	0	95-100	90-95	80-90	50-80	25-35	5-15
	14-24	Unweathered bedrock			---	---	---	---	---	---	---	---
552: Burnson-----	0-1	Slightly decomposed plant material	PT		0	0	100	100	---	---	---	---
	1-4	Loam	CL-ML, CL	A-4	0	0-5	95-100	90-100	85-95	65-75	25-30	5-10
	4-8	Clay, clay loam	CL	A-6, A-7	0	0-5	95-100	90-100	80-90	70-80	35-45	10-20
	8-18	Sandy clay, clay, clay loam	CL, SC, CH	A-6, A-7	0	0-5	85-100	80-100	70-90	45-80	35-60	15-35
	18-29	Sandy clay, clay, clay loam	CL, CH, SC	A-6, A-7	0	0-5	85-100	80-100	70-90	45-80	35-60	15-35
	29-44	Sandy clay loam, clay, clay loam	SC, CL	A-6, A-7	0	0-5	85-100	80-100	70-90	45-80	35-45	10-20
	44-54	Unweathered bedrock			---	---	---	---	---	---	---	---
553: Burnson-----	0-1	Slightly decomposed plant material	PT		0	0	100	100	---	---	---	---
	1-4	Clay loam	CL, CL-ML	A-4	0	0-5	95-100	90-100	85-95	65-75	25-30	5-10
	4-8	Clay loam	CL-ML, CL	A-4	0	0-5	95-100	90-100	85-95	65-75	25-30	5-10
	8-18	Sandy clay, clay, clay loam	CL, CH, SC	A-6, A-7	0	0-5	85-100	80-100	70-90	45-80	35-60	15-35
	18-29	Sandy clay, clay, clay loam	SC, CL, CH	A-6, A-7	0	0-5	85-100	80-100	70-90	45-80	35-60	15-35
	29-44	Sandy clay, clay, clay loam	SC, CL, CH	A-6, A-7	0	0-5	85-100	80-100	70-90	45-80	35-60	15-35
	44-54	Unweathered bedrock			---	---	---	---	---	---	---	---
Herm-----	0-6	Loam	CL-ML, CL	A-4	0	0-5	95-100	90-100	75-95	50-75	25-30	5-10
	6-13	Clay loam	CL	A-6	0	0-5	95-100	90-100	80-100	65-80	35-50	15-25
	13-17	Clay loam, clay	CL	A-6, A-7	0	0-5	95-100	90-100	80-100	65-95	35-50	15-25
	17-45	Clay loam, clay	CL	A-6, A-7	0	0-5	95-100	90-100	80-100	65-95	35-50	15-25
	45-60	Clay loam	CL	A-6	0-5	0-10	95-100	90-100	80-100	65-80	30-40	10-20
571: Mancos-----	0-8	Loam	CL, CL-ML	A-4	0	0	100	100	85-95	60-75	25-30	5-10
	8-15	Clay loam	CL	A-6	0	0-5	85-100	80-100	70-85	60-75	35-40	15-20
	15-21	Clay loam, clay	CL, CH	A-6, A-7	0	0-5	85-100	80-100	70-85	60-75	35-60	15-35
	21-26	Clay loam, clay	CL, CH	A-6, A-7	0	0-5	85-100	80-100	70-85	60-75	35-60	15-35
	26-34	Gravelly sandy clay loam	SC, SC-SM, GC-GM, GC	A-2, A-4, A-6	0	0-15	60-80	55-75	45-70	20-40	25-35	5-15
	34-38	Unweathered bedrock			---	---	---	---	---	---	---	---
Skisams-----	0-5	Loam										

Table 23.--Engineering index properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches						
					4	10	40	200				
	In.				Pct.	Pct.					Pct.	
571: Skutum-----	0-3	Moderately decomposed plant material	PT		0	0	100	100	---	---	---	---
	3-8	Loam	CL-ML, CL	A-4	0	0	95-100	90-95	85-95	60-75	25-30	5-10
	8-20	Clay loam	CL	A-6	0	0	95-100	90-100	90-95	70-80	30-35	10-15
	20-30	Gravelly clay loam	SC, GC, CL	A-6	0	0-5	60-80	55-75	50-75	40-60	30-35	10-15
	30-47	Gravelly clay, gravelly clay loam	GC, CL	A-6, A-7	0	0-10	60-80	55-75	50-75	40-70	35-45	15-20
	47-53	Gravelly sandy clay loam	SC-SM, SC	A-2, A-4	0	0-10	60-80	55-75	45-70	20-40	25-30	5-10
	53-63	Unweathered bedrock			---	---	---	---	---	---	---	---
572: Sudduth-----	0-3	Loam	CL, CL-ML	A-4	0-5	0-5	95-100	90-100	80-90	65-75	25-30	5-10
	3-7	Loam	CL, CL-ML	A-4	0-5	0-5	95-100	90-100	80-90	65-75	25-30	5-10
	7-13	Clay loam	CL	A-6	0-5	0-5	95-100	90-100	85-95	65-80	35-40	15-20
	13-22	Gravelly clay, clay	CL, CH	A-7	0-5	0-5	85-100	70-100	65-95	60-90	40-65	20-40
	22-38	Gravelly clay loam	CL, SC	A-6	0-5	0-10	80-90	50-85	45-85	40-65	30-40	10-20
	38-52	Clay	CH, CL	A-7	0-5	0-5	95-100	90-100	85-100	80-95	40-65	20-40
	52-60	Clay	CL, CH	A-7	0-5	0-5	95-100	90-100	85-100	80-95	40-65	20-40
600: Valto-----	0-2	Slightly decomposed plant material	PT		0	0	100	100	---	---	---	---
	2-4	Very stony fine sandy loam	SM	A-2, A-4	25-60	10-50	45-90	40-85	30-70	20-45	20-25	NP-5
	4-14	Very stony sandy loam, very stony fine sandy loam, extremely stony sandy loam	SM	A-2, A-4	25-70	5-50	45-90	40-85	25-70	15-45	20-25	NP-5
	14-18	Unweathered bedrock			---	---	---	---	---	---	---	---
Rock outcrop----	0-60	Unweathered bedrock			---	---	---	---	---	---	---	
601: Weminuche-----	0-2	Slightly decomposed plant material	PT		0	0	100	100	---	---	---	---
	2-4	Loam	CL-ML, CL	A-4	0	0-5	85-100	80-90	70-80	50-75	25-30	5-10
	4-11	Fine sandy loam, loam	CL-ML, SC, SC-SM, CL	A-4	0	0-5	85-100	80-95	60-90	35-75	25-30	5-10
	11-21	Sandy clay loam, fine sandy loam, loam, gravelly loam, clay loam	SC-SM, SC, CL-ML, CL	A-4	0-5	0-5	85-100	80-95	60-90	35-75	25-30	5-10
	21-34	Clay loam, loam, sandy clay loam	CL-ML, CL, SC, SC-SM	A-4, A-6	0-5	0-5	90-100	80-95	50-95	40-75	25-35	5-15
	34-44	Gravelly clay loam, clay loam, loam, sandy clay loam	SC, SC-SM, CL-ML, CL	A-4, A-6	0-5	0-5	90-100	70-90	50-85	40-75	25-35	5-15
	44-62	Gravelly clay loam, gravelly loam, clay loam, sandy clay loam	SC, GC, CL- ML, CL	A-4, A-6	0-5	0-10	75-100	65-95	45-80	35-65	25-35	5-15

Table 23.--Engineering index properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In.				Pct.	Pct.					Pct.	
602: Weminuche-----	0-2	Slightly decomposed plant material	PT		0	0	100	100	---	---	---	---
	2-4	Loam	CL-ML, CL	A-4	0	0-5	85-100	80-90	70-80	50-75	25-30	5-10
	4-11	Fine sandy loam, loam	CL-ML, SC, SC-SM, CL	A-4	0	0-5	85-100	80-95	60-90	35-75	25-30	5-10
	11-21	Clay loam, sandy clay loam, fine sandy loam, loam, gravelly loam	SC-SM, SC, CL-ML, CL	A-4	0-5	0-5	85-100	80-95	60-90	35-75	25-30	5-10
	21-34	Clay loam, loam, sandy clay loam	SC-SM, SC, CL, CL-ML	A-4, A-6	0-5	0-5	90-100	80-95	50-95	40-75	25-35	5-15
	34-44	Gravelly clay loam, clay loam, loam, sandy clay loam	CL-ML, SC-SM, SC, CL	A-4, A-6	0-5	0-5	90-100	70-90	50-85	40-75	25-35	5-15
	44-62	Gravelly clay loam, gravelly loam, clay loam, sandy clay loam	SC, GC, CL- ML, CL	A-4, A-6	0-5	0-10	75-100	65-95	45-80	35-65	25-35	5-15
603: Weminuche-----	0-2	Slightly decomposed plant material	PT		0	0	100	100	---	---	---	---
	2-4	Loam	CL, CL-ML	A-4	0	0-5	85-100	80-90	70-80	50-75	25-30	5-10
	4-11	Fine sandy loam, loam	CL, CL-ML, SC, SC-SM	A-4	0	0-5	85-100	80-95	60-90	35-75	25-30	5-10
	11-21	Clay loam, sandy clay loam, fine sandy loam, loam, gravelly loam	SC-SM, SC, CL-ML, CL	A-4	0-5	0-5	85-100	80-95	60-90	35-75	25-30	5-10
	21-34	Clay loam, loam, sandy clay loam	SC-SM, SC, CL-ML, CL	A-4, A-6	0-5	0-5	90-100	80-95	50-95	40-75	25-35	5-15
	34-44	Gravelly clay loam, clay loam, loam, sandy clay loam	SC, SC-SM, CL-ML, CL	A-4, A-6	0-5	0-5	90-100	70-90	50-85	40-75	25-35	5-15
	44-62	Gravelly clay loam, gravelly loam, clay loam, sandy clay loam	GC, SC, CL, CL-ML	A-4, A-6	0-5	0-10	75-100	65-95	45-80	35-65	25-35	5-15
Anvik-----	0-1	Slightly decomposed plant material	PT		0	0	100	100	---	---	---	---
	1-7	Loam	CL-ML, CL	A-4	0	0	90-100	85-100	70-95	50-70	25-30	5-10
	7-11	Loam	CL, CL-ML	A-4	0	0	90-100	85-100	70-95	50-70	25-30	5-10
	11-22	Sandy loam, loam	CL, CL-ML, SC, SC-SM	A-2, A-4	0	0	90-100	85-95	60-90	30-60	25-30	5-10
	22-31	Clay loam, cobbly loam, sandy clay loam	SC, CL-ML, CL, SC-SM	A-4, A-6	0-5	0-30	90-100	75-100	70-90	40-75	25-35	5-15
	31-45	Gravelly clay loam, cobbly loam, sandy clay loam, clay loam	CL, CL-ML, SC, SC-SM	A-4, A-6	0-5	0-30	90-100	75-100	70-90	40-75	25-35	5-15
	45-61	Loam, cobbly clay loam, sandy clay loam	SC, CL	A-4, A-6	0-5	5-30	75-100	75-95	55-85	40-70	25-35	5-15

Table 23.--Engineering index properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In.				Pct.	Pct.					Pct.	
605: Nordicol-----	0-1	Slightly decomposed plant material	PT		0	0	100	100	---	---	---	---
	1-7	Very stony sandy loam	GC, GC-GM, SC, SC-SM	A-2, A-4	25-55	20-50	45-90	40-85	35-75	25-50	25-30	5-10
	7-20	Very stony loam	GC-GM, SC, SC-SM, GC SC, SC-SM	A-2, A-4	25-55	20-50	45-90	40-85	35-75	25-50	25-30	5-10
	20-28	Very stony sandy loam, stony sandy loam	SC, SC-SM	A-2	15-55	10-30	65-85	55-85	35-65	20-35	25-30	5-10
	28-52	Very stony sandy clay loam, very stony loam, very stony clay loam	GC, SC	A-2, A-6	25-60	10-30	45-80	40-70	35-65	25-50	25-35	5-15
	52-61	Extremely stony sandy loam, very stony loam	GC, SC, SC- SM, GC-GM	A-2	20-70	20-50	45-70	35-60	25-40	15-30	25-30	5-10
606: Snowdon-----	0-2	Slightly decomposed plant material	PT		0	0	100	100	---	---	---	---
	2-6	Stony loam	CL, CL-ML	A-4	10-30	10-30	65-85	60-85	50-80	45-60	25-30	5-10
	6-13	Very stony sandy loam, very cobbly sandy loam, stony sandy loam, stony loam	GC, GC-GM, SC, SC-SM	A-1, A-2, A-4	15-50	10-60	45-90	40-85	25-60	20-45	25-30	5-10
	13-20	Very stony loam, extremely stony sandy clay loam, very cobbly clay loam	GC, GC-GM, SC-SM, SC	A-2, A-4, A-6	15-50	20-60	45-90	40-85	30-75	15-50	25-35	5-15
	20-24	Unweathered bedrock			---	---	---	---	---	---	---	---
Needleton-----	0-2	Slightly decomposed plant material	PT		0	0	100	100	---	---	---	---
	2-16	Stony loam	CL-ML, CL, SC, SC-SM	A-4	10-40	10-30	75-90	70-85	60-80	45-65	25-30	5-10
	16-26	Very cobbly sandy clay loam, extremely cobbly clay loam, very cobbly loam, very cobbly sandy loam	SC-SM, SC, CL, CL-ML	A-2, A-4	0-15	25-60	50-90	45-85	40-75	25-60	25-30	5-10
	26-48	Very cobbly sandy clay loam, extremely stony loam, very stony sandy clay loam, very cobbly clay loam	CL-ML, GC, CL, GC-GM, SC, SC-SM	A-6, A-2, A-4	15-50	15-50	45-90	40-85	30-75	20-65	25-35	5-15
	48-62	Very cobbly clay loam	SC, CL, GC, GC-GM, SC- SM, CL-ML	A-6, A-2, A-4	15-25	20-50	45-90	40-85	30-75	20-65	25-35	5-15

Table 23.--Engineering index properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
					Pct.	Pct.						
	In.											
607: Graysill-----	0-2	Slightly decomposed plant material	PT		0	0	100	100	---	---	---	---
	2-14	Loam	CL, CL-ML	A-4	0-5	0-10	85-100	80-100	70-90	50-75	25-30	5-10
	14-22	Clay loam, cobbly clay loam, loam	SC-SM, CL, SC, CL-ML	A-4, A-6	0-5	0-40	80-100	70-100	60-90	45-75	25-35	5-15
	22-37	Clay loam, cobbly clay loam, loam	CL, CL-ML, SC, SC-SM	A-4, A-6	0-5	0-40	80-100	70-100	60-90	45-75	25-35	5-15
	37-41	Unweathered bedrock			---	---	---	---	---	---	---	---
Scotch-----	0-2	Slightly decomposed plant material	PT		0	0	100	100	---	---	---	---
	2-7	Loam	CL, CL-ML	A-4	0-5	0-10	90-100	80-100	70-90	50-75	25-30	5-10
	7-17	Clay loam, cobbly loam, loam, sandy clay loam	CL, CL-ML, SC	A-6, A-4	0-5	0-30	80-100	70-100	60-90	45-75	25-35	5-15
	17-21	Unweathered bedrock			---	---	---	---	---	---	---	---
608: Scotch-----	0-2	Slightly decomposed plant material	PT		0	0	100	100	---	---	---	---
	2-7	Loam	CL-ML, CL	A-4	0-5	0-10	90-100	80-100	70-90	50-75	25-30	5-10
	7-17	Clay loam, cobbly loam, loam, sandy clay loam	CL, CL-ML, SC	A-4, A-6	0-5	0-30	80-100	70-100	60-90	45-75	25-35	5-15
	17-21	Unweathered bedrock			---	---	---	---	---	---	---	---
Graysill-----	0-2	Slightly decomposed plant material	PT		0	0	100	100	---	---	---	---
	2-14	Loam	CL, CL-ML	A-4	0-5	0-10	85-100	80-100	70-90	50-75	25-30	5-10
	14-22	Clay loam, cobbly clay loam, loam	SC-SM, SC, CL, CL-ML	A-4, A-6	0-5	0-40	80-100	70-100	60-90	45-75	25-35	5-15
	22-37	Clay loam, cobbly clay loam, loam	CL-ML, SC, SC-SM, CL	A-4, A-6	0-5	0-40	80-100	70-100	60-90	45-75	25-35	5-15
	37-41	Unweathered bedrock			---	---	---	---	---	---	---	---
609: Hourglass-----	0-11	Loam	CL, CL-ML	A-4	0-5	0-5	90-100	85-100	60-90	50-75	25-30	5-10
	11-18	Gravelly sandy clay loam, gravelly clay loam, clay loam	CL, CL-ML	A-4, A-6	0-5	0-15	85-100	80-95	60-90	50-80	25-35	5-15
	18-31	Gravelly sandy clay loam, gravelly clay loam, clay loam	CL-ML, CL, GC, SC, SC- SM	A-4, A-6	0-5	0-15	60-95	55-95	50-90	40-80	25-35	5-15
	31-46	Very stony clay loam, stony clay loam	CL, SC	A-6	10-30	5-45	75-90	70-85	45-85	35-70	30-40	10-20
	46-60	Cobbly loam, loam, very stony clay loam	SC-SM, CL, GC, SC, CL- ML	A-4, A-6	5-40	5-40	50-90	45-85	40-75	35-65	25-35	5-15

Table 23.--Engineering index properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In.				Pct.	Pct.					Pct.	
609: Wander-----	0-14	Very cobbly loam	GC, SC, CL, SC-SM	A-2, A-4	0-25	20-60	45-90	40-85	35-80	25-65	25-30	5-10
	14-27	Very cobbly clay loam, extremely cobbly sandy clay loam	CL-ML, CL, SC-SM, GC, SC	A-4, A-6	5-20	20-65	55-85	50-85	45-75	35-70	25-35	5-15
	27-40	Very cobbly loam, very cobbly clay loam	SC, GC, SC-SM, CL-ML, CL	A-4, A-6	5-20	20-65	55-85	50-85	45-75	35-70	25-35	5-15
	40-60	Extremely cobbly loam, very cobbly clay loam	GC, SC-SM, CL-ML, SC, CL	A-4, A-6	5-20	20-65	55-85	50-85	45-75	35-70	25-35	5-15
610: Wander-----	0-14	Very cobbly loam	GC, SC, SC-SM, CL	A-2, A-4	0-25	20-60	45-90	40-85	35-80	25-65	25-30	5-10
	14-27	Very cobbly clay loam, extremely cobbly sandy clay loam	SC-SM, GC, CL, SC, CL-ML	A-4, A-6	5-20	20-65	55-85	50-85	45-75	35-70	25-35	5-15
	27-40	Very cobbly loam, very cobbly clay loam	GC, SC, SC-SM, CL, CL-ML	A-4, A-6	5-20	20-65	55-85	50-85	45-75	35-70	25-35	5-15
	40-60	Extremely cobbly loam, very cobbly clay loam	CL, CL-ML, SC, GC, SC-SM	A-4, A-6	5-20	20-65	55-85	50-85	45-75	35-70	25-35	5-15
Hotter-----	0-4	Very stony sandy loam	SC, SC-SM	A-2	15-50	15-50	70-80	65-75	40-50	15-35	25-30	5-10
	4-14	Extremely stony loam, very stony sandy loam, very cobbly sandy loam	SC, SC-SM	A-1, A-2	20-60	20-60	65-80	50-75	35-55	15-35	25-30	5-10
	14-18	Unweathered bedrock			---	---	---	---	---	---	---	---
Hourglass-----	0-11	Loam	CL, CL-ML	A-4	0-5	0-5	90-100	85-100	60-90	50-75	25-30	5-10
	11-18	Gravelly sandy clay loam, gravelly clay loam, clay loam	CL-ML, CL	A-4, A-6	0-5	0-15	85-100	80-95	60-90	50-80	25-35	5-15
	18-31	Gravelly sandy clay loam, gravelly clay loam, clay loam	SC, GC, CL, CL-ML, SC-SM	A-4, A-6	0-5	0-15	60-95	55-95	50-90	40-80	25-35	5-15
	31-46	Very stony clay loam, stony clay loam	SC, CL	A-6	10-30	5-45	75-90	70-85	45-85	35-70	30-40	10-20
	46-60	Cobbly loam, loam, very stony clay loam	CL-ML, CL, GC, SC, SC-SM	A-4, A-6	5-40	5-40	50-90	45-85	40-75	35-65	25-35	5-15
611: Goldbug-----	0-1	Slightly decomposed plant material	PT		0	0	100	100	---	---	---	---
	1-10	Very stony fine sandy loam	SC-SM, SC	A-2, A-4	25-50	20-30	65-90	55-85	45-70	20-40	20-25	5-10
	10-21	Very stony fine sandy loam, very stony sandy loam	SC-SM, SC	A-2, A-4	25-50	20-35	65-90	55-85	45-70	20-40	20-25	5-10
	21-29	Stony sandy clay loam, stony fine sandy loam	SC, SC-SM	A-6, A-4, A-2	15-45	10-30	75-90	75-85	50-75	25-45	25-35	5-15
	29-61	Stony sandy clay, stony clay, stony clay loam	CL, SC	A-6, A-7	15-30	10-20	75-90	70-85	60-75	35-65	35-50	15-25

Table 23.--Engineering index properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In.				Pct.	Pct.					Pct.	
612: Haviland-----	0-2	Slightly decomposed plant material	PT		0	0	100	100	---	---	---	---
	2-14	Loam	CL, CL-ML	A-4	0	0-10	90-100	80-100	70-90	50-75	25-30	5-10
	14-24	Clay loam, sandy clay loam, loam	CL, CL-ML	A-6, A-4	0-5	0-10	90-100	80-100	70-90	50-75	25-35	5-15
	24-62	Gravelly clay loam, cobbly clay loam, gravelly sandy clay loam	GC-GM, SC, SC-SM, CL- ML, CL	A-2, A-4, A-6	0-10	5-30	60-80	55-75	50-75	30-60	25-35	5-15
Graysill-----	0-2	Slightly decomposed plant material	PT		0	0	100	100	---	---	---	---
	2-14	Loam	CL-ML, CL	A-4	0-5	0-10	85-100	80-100	70-90	50-75	25-30	5-10
	14-22	Clay loam, cobbly clay loam, loam	CL-ML, CL, SC, SC-SM	A-4, A-6	0-5	0-40	80-100	70-100	60-90	45-75	25-35	5-15
	22-37	Clay loam, cobbly clay loam, loam	CL, CL-ML, SC, SC-SM	A-4, A-6	0-5	0-40	80-100	70-100	60-90	45-75	25-35	5-15
	37-41	Unweathered bedrock			---	---	---	---	---	---	---	---
615: Haviland-----	0-2	Slightly decomposed plant material	PT		0	0	100	100	---	---	---	---
	2-14	Loam	CL, CL-ML	A-4	0	0-10	90-100	80-100	70-90	50-75	25-30	5-10
	14-24	Clay loam, sandy clay loam, loam	CL, CL-ML	A-6, A-4	0-5	0-10	90-100	80-100	70-90	50-75	25-35	5-15
	24-62	Gravelly clay loam, cobbly clay loam, gravelly sandy clay loam	CL, GC-GM, SC, CL-ML, SC-SM	A-2, A-4, A-6	0-10	5-30	60-80	55-75	50-75	30-60	25-35	5-15
616: Fortlewis-----	0-1	Slightly decomposed plant material	PT		0	0	100	100	---	---	---	---
	1-4	Stony fine sandy loam	SC-SM, SC	A-2, A-4	15-45	5-20	75-90	70-85	50-70	30-50	25-30	5-10
	4-12	Stony fine sandy loam	SC, SC-SM	A-2, A-4	15-45	5-20	75-90	70-85	50-70	30-50	25-30	5-10
	12-17	Clay loam, sandy clay loam, stony clay loam, fine sandy loam, stony fine sandy loam	CL, SC, SC- SM, CL-ML	A-6, A-4, A-2	0-20	0-20	90-95	85-90	55-85	30-75	25-40	5-15
	17-27	Clay, clay loam, sandy clay, stony clay	SC, CL	A-6, A-7	0-20	0-20	90-95	85-90	55-85	45-80	35-45	15-20
	27-39	Clay, clay loam, sandy clay, stony clay loam	SC, CL	A-6, A-7	0-20	0-20	90-95	85-90	55-85	45-80	35-45	15-20
	39-43	Unweathered bedrock			---	---	---	---	---	---	---	---
617: Shawa-----	0-7	Loam	CL, CL-ML	A-4	0	0-5	95-100	90-100	75-95	55-75	25-30	5-10
	7-19	Loam	CL, CL-ML	A-4	0	0-5	95-100	90-100	75-95	55-75	25-30	5-10
	19-38	Clay loam, loam	CL, CL-ML	A-4, A-6	0	0-5	95-100	90-100	80-100	65-80	25-35	5-15
	38-60	Cobbly clay loam	CL	A-6	0	15-30	75-90	70-85	65-85	50-70	30-35	10-15

Table 23.--Engineering index properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In.				Pct.	Pct.					Pct.	
618: Nordicol-----	0-2	Slightly decomposed plant material	PT		0	0	100	100	---	---	---	---
	2-21	Very stony loam	GC, GC-GM, SC, SC-SM	A-2, A-4	25-55	20-50	45-90	40-85	35-75	25-50	25-30	5-10
	21-29	Very stony sandy loam, stony sandy loam	SC-SM, SC	A-2	15-55	10-30	65-85	55-85	35-65	20-35	25-30	5-10
	29-53	Very stony sandy clay loam, very stony loam, very stony clay loam	SC, GC	A-2, A-6	25-60	10-30	45-80	40-70	35-65	25-50	25-35	5-15
	53-62	Extremely stony sandy loam, very stony loam	GC-GM, GC, SC-SM, SC	A-2	20-70	20-50	45-70	35-60	25-40	15-30	25-30	5-10
Valto-----	0-2	Slightly decomposed plant material	PT		0	0	100	100	---	---	---	---
	2-4	Very stony fine sandy loam	SM	A-2, A-4	25-60	10-50	45-90	40-85	30-70	20-45	20-25	NP-5
	4-14	Very stony sandy loam, very stony fine sandy loam, extremely stony sandy loam	SM	A-2, A-4	25-70	5-50	45-90	40-85	25-70	15-45	20-25	NP-5
	14-18	Unweathered bedrock			---	---	---	---	---	---	---	---
619: Nordicol-----	0-2	Slightly decomposed plant material	PT		0	0	100	100	---	---	---	---
	2-17	Extremely stony loam	GC, GC-GM, SC-SM, SC	A-2, A-4	30-75	10-60	40-80	35-70	30-65	20-50	25-30	5-10
	17-31	Very stony sandy loam, very cobbly sandy clay loam	SC-SM, SC	A-2	15-50	10-50	65-85	55-85	35-65	20-35	25-30	5-10
	31-62	Extremely cobbly sandy clay loam, very stony sandy clay loam, very stony loam, very stony clay loam	SC-SM, GC-GM, GC, SC	A-4, A-2, A-6	25-50	20-70	45-80	40-70	35-65	25-50	25-35	5-15
620: Caviness-----	0-3	Slightly decomposed plant material	PT		0	0	100	100	---	---	---	---
	3-13	Loam	CL, CL-ML	A-4	0-5	0-15	90-100	85-95	70-90	50-75	25-30	5-10
	13-21	Stony loam, stony sandy clay loam, very stony loam	CL-ML, SC, CL, SC-SM	A-2, A-4	10-50	10-30	75-95	70-95	60-90	25-70	25-30	5-10
	21-32	Stony loam, stony sandy clay loam, very stony loam	CL-ML, SC, SC-SM, CL	A-2, A-4	10-50	10-30	75-95	70-95	60-90	25-70	25-30	5-10
	32-51	Clay, sandy clay, stony clay	CL	A-6, A-7	0-30	0-30	80-95	75-90	60-90	50-80	35-50	15-25
	51-58	Clay, sandy clay, stony clay	CL	A-6, A-7	0-30	0-30	80-95	75-90	60-90	50-80	35-50	15-25
	58-62	Unweathered bedrock			---	---	---	---	---	---	---	---

Table 23.--Engineering index properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In.				Pct.	Pct.					Pct.	
621: Granturk-----	0-1	Slightly decomposed plant material	PT		0	0	100	100	---	---	---	---
	1-3	Loam	CL, CL-ML	A-4	0	0-15	90-100	85-100	70-90	50-70	25-30	5-10
	3-8	Loam	CL, CL-ML	A-4	0	0-15	90-100	85-100	70-90	50-70	25-30	5-10
	8-17	Loam, clay loam	CL, CL-ML	A-4, A-6	0	0-10	80-100	75-100	65-90	50-70	25-35	5-15
	17-19	Very gravelly sandy loam	GC, GC-GM	A-2	0	0-20	35-55	30-50	25-35	20-30	25-30	5-10
	19-23	Unweathered bedrock			---	---	---	---	---	---	---	---
622: Granturk-----	0-1	Slightly decomposed plant material	PT		0	0	100	100	---	---	---	---
	1-3	Loam	CL-ML, CL	A-4	0-5	0-15	90-100	85-100	70-90	50-70	25-30	5-10
	3-8	Loam	CL, CL-ML	A-4	0-5	0-15	90-100	85-100	70-90	50-70	25-30	5-10
	8-17	Loam, clay loam	CL, CL-ML	A-4, A-6	0	0-10	80-100	75-100	65-90	50-70	25-35	5-15
	17-19	Very gravelly sandy loam	GC, GC-GM	A-2	0	0-20	35-55	30-50	25-35	20-30	25-30	5-10
	19-23	Unweathered bedrock			---	---	---	---	---	---	---	---
Rock outcrop----	0-60	Unweathered bedrock			---	---	---	---	---	---	---	---
623: Chris-----	0-1	Slightly decomposed plant material	PT		0	0	100	100	---	---	---	---
	1-13	Gravelly loam	CL-ML, GC-GM	A-4	0-5	0-10	55-80	55-75	50-65	35-55	25-30	5-10
	13-23	Gravelly sandy clay loam, gravelly clay loam, gravelly loam	CL, CL-ML, GC, SC	A-4, A-6	0-5	5-15	60-80	55-75	50-75	35-60	25-35	5-15
	23-31	Very cobbly loam, very gravelly sandy clay loam, very cobbly clay loam	GC, SC-SM, SC	A-6, A-4, A-2	0-15	20-50	35-80	30-70	25-60	20-45	25-35	5-15
	31-42	Very cobbly sandy clay loam, very cobbly clay loam, very gravelly clay, very cobbly clay	CL, GC	A-6, A-2, A-7	0-15	10-50	35-80	30-70	30-65	20-60	35-50	15-25
	42-61	Very cobbly sandy clay loam, very gravelly sandy clay loam, very cobbly clay loam	SC-SM, SC, GC	A-6, A-4, A-2	0-15	20-50	35-80	30-70	25-60	20-45	25-35	5-15
Nordicol-----	0-2	Slightly decomposed plant material	PT		0	0	100	100	---	---	---	---
	2-21	Very stony loam	GC-GM, SC, SC-SM, GC	A-2, A-4	25-55	20-50	45-90	40-85	35-75	25-50	25-30	5-10
	21-29	Very stony sandy loam, stony sandy loam	SC-SM, SC	A-2	15-55	10-30	65-85	55-85	35-65	20-35	25-30	5-10
	29-53	Very stony sandy clay loam, very stony loam, very stony clay loam	GC, SC	A-2, A-6	25-60	10-30	45-80	40-70	35-65	25-50	25-35	5-15
	53-62	Extremely stony sandy loam, very stony loam	SC-SM, GC-GM, GC, SC	A-2	20-70	20-50	45-70	35-60	25-40	15-30	25-30	5-10

Table 23.--Engineering index properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
					Pct.	Pct.						
699: Haplocryolls----	In.				Pct.	Pct.					Pct.	
	0-2	Moderately decomposed plant material	PT		0	0	100	100	---	---	---	---
	2-10	Very cobbly loam	SC, GC-GM, CL-ML, GC	A-2, A-4	0-25	20-70	45-90	40-85	35-80	25-65	25-30	5-10
	10-19	Very cobbly loam	CL-ML, GC, SC, GC-GM	A-2, A-4	0-25	20-70	45-90	40-85	35-80	25-65	25-30	5-10
	19-29	Very cobbly clay loam, extremely stony loam, very stony clay loam	SC-SM, CL-ML, GC, CL, SC	A-2, A-4, A-6	5-70	20-70	50-90	45-80	35-75	30-60	25-35	5-15
	29-62	Extremely stony loam, very cobbly sandy clay loam	SC, CL, CL- ML, SC-SM, GC	A-2, A-4, A-6	5-70	20-70	50-90	45-80	35-75	30-60	25-35	5-15
Rubble land----	0-60	Fragmental material	GP	A-1	45-80	45-90	0-10	0-5	0-5	0	0-14	NP
700: Bradfield-----	0-7	Clay loam	CL	A-6	0	0-5	90-100	85-100	75-95	60-90	30-40	10-20
	7-15	Clay loam, clay	CH, CL	A-6, A-7	0	0	95-100	85-100	85-95	70-90	35-60	15-35
	15-28	Clay loam, clay	CH, CL	A-6, A-7	0	0	95-100	85-100	85-95	65-95	35-65	15-40
	28-36	Clay loam, clay	CL, CH	A-6, A-7	0	0	95-100	85-100	85-95	65-90	35-65	15-40
	36-60	Clay loam, clay	CL	A-6, A-7	0	0	95-100	85-100	85-95	70-90	35-50	15-25
703: Narraguinnep----	0-6	Clay loam	CL	A-6	0	0	90-100	80-100	75-95	60-80	30-40	10-20
	6-17	Clay, clay loam	CL	A-6, A-7	0	0	90-100	80-100	75-95	60-90	35-50	15-25
	17-23	Clay, clay loam	CL	A-6, A-7	0	0	90-100	80-100	75-95	60-90	35-50	15-25
	23-30	Silty clay loam, clay loam, clay	CL	A-7, A-6	0	0-5	90-100	80-100	75-95	60-90	30-50	10-25
	30-60	Silty clay loam, clay loam, clay	CL	A-7, A-6	0	0	90-100	80-100	75-95	60-90	30-50	10-25
704: Gladlow-----	0-5	Silty clay loam	ML	A-4, A-6, A-7	0	0	95-100	90-100	90-100	85-95	30-50	5-20
	5-14	Silty clay loam, silty clay	ML	A-7	0	0	95-100	90-100	85-100	80-95	40-50	10-20
	14-24	Silty clay loam, silty clay	ML	A-7	0	0	95-100	90-100	85-100	80-95	40-50	10-20
	24-31	Silty clay loam, silty clay	ML	A-4, A-6, A-7	0	0	95-100	90-100	85-100	80-95	30-45	5-20
	31-60	Silty clay loam, silty clay, clay loam	CL	A-6, A-7	0	0	95-100	85-100	80-100	70-95	35-45	15-20
Rock outcrop----	0-60	Unweathered bedrock			---	---	---	---	---	---	---	---
Ruko-----	0-2	Silty clay loam	ML	A-4, A-6	0	0	100	100	95-100	85-95	30-50	5-20
	2-11	Clay loam, silty clay loam, clay	CL	A-6, A-7	0	0	100	100	95-100	85-95	35-45	15-20
	11-21	Weathered bedrock			---	---	---	---	---	---	---	---
705: Helmet-----	0-2	Slightly decomposed plant material	PT		0	0	100	100	---	---	---	---
	2-4	Clay loam	CL	A-6	0	0	90-100	85-100	70-95	60-75	30-40	10-20
	4-13	Clay loam	CL	A-6	0	0-5	90-100	85-95	70-95	60-75	30-40	10-20
	13-21	Clay loam, clay	CL, CH	A-6, A-7	0	0-10	85-100	80-95	70-90	65-85	35-60	15-35
	21-28	Clay loam, clay	CH, CL	A-6, A-7	0	0-10	85-100	80-95	70-90	65-85	35-60	15-35
	28-46	Silty clay, silty clay loam, clay	CL, CH	A-6, A-7	0	0-10	85-100	80-100	70-85	60-80	35-55	15-30
	46-62	Silty clay loam, clay loam	CL	A-6	0	0-5	85-100	85-100	75-90	65-85	30-40	10-20

Table 23.--Engineering index properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
					Pct.	Pct.					Pct.	
706: Naraguinnep----	In.											
	0-6	Clay loam	CL	A-6	0	0	90-100	80-100	75-95	60-80	30-40	10-20
	6-17	Clay, clay loam	CL	A-6, A-7	0	0	90-100	80-100	75-95	60-90	35-50	15-25
	17-23	Clay, clay loam	CL	A-6, A-7	0	0	90-100	80-100	75-95	60-90	35-50	15-25
	23-30	Silty clay loam, clay loam, clay	CL	A-7, A-6	0	0-5	90-100	80-100	75-95	60-90	30-50	10-25
	30-60	Silty clay loam, clay loam, clay	CL	A-7, A-6	0	0	90-100	80-100	75-95	60-90	30-50	10-25
707: Teedown-----												
	0-12	Loam	CL, CL-ML	A-4	0-5	0-10	90-100	85-100	70-90	50-70	25-30	5-10
	12-20	Loam	CL, CL-ML	A-4	0-5	0-15	90-100	85-95	70-90	50-70	25-30	5-10
	20-28	Cobbly clay, clay loam, clay	CL	A-6, A-7	0-10	0-15	90-100	85-100	75-100	65-95	35-50	15-25
	28-38	Cobbly clay, clay loam, clay	CL	A-6, A-7	0-10	0-15	90-100	85-100	75-100	65-95	35-50	15-25
	38-60	Stony clay loam, stony clay, cobbly clay loam, clay	CL	A-6, A-7	0-35	0-35	75-100	70-100	60-90	50-85	35-45	15-20
Nordicol-----												
	0-3	Slightly decomposed plant material	PT		0	0	100	100	---	---	---	---
	3-18	Very cobbly loam	GC, GC-GM, SC, SC-SM	A-2, A-4	10-25	20-55	45-90	40-85	35-80	25-50	25-30	5-10
	18-32	Very stony sandy loam, very cobbly sandy clay loam	SC-SM, SC	A-2	15-50	10-50	65-85	55-85	35-65	20-35	25-35	5-15
	32-63	Extremely cobbly sandy clay loam, very stony sandy clay loam, very stony loam, very stony clay loam	SC, SC-SM, GC-GM, GC	A-4, A-2, A-6	25-50	20-70	45-80	40-70	35-65	25-50	25-35	5-15
708: Helmet-----												
	0-2	Slightly decomposed plant material	PT		0	0	100	100	---	---	---	---
	2-4	Clay loam	CL	A-6	0	0	90-100	85-100	70-95	60-75	30-40	10-20
	4-13	Clay loam	CL	A-6	0	0-5	90-100	85-95	70-95	60-75	30-40	10-20
	13-21	Clay loam, clay	CL, CH	A-6, A-7	0	0-10	85-100	80-95	70-90	65-85	35-60	15-35
	21-28	Clay loam, clay	CL, CH	A-6, A-7	0	0-10	85-100	80-95	70-90	65-85	35-60	15-35
	28-46	Silty clay, silty clay loam, clay	CH, CL	A-6, A-7	0	0-10	85-100	80-100	70-85	60-80	35-55	15-30
	46-62	Silty clay loam, clay loam	CL	A-6	0	0-5	85-100	85-100	75-90	65-85	30-40	10-20
709: Teedown-----												
	0-12	Loam	CL-ML, CL	A-4	0-5	0-10	90-100	85-100	70-90	50-70	25-30	5-10
	12-20	Loam	CL, CL-ML	A-4	0-5	0-5	90-100	85-95	70-90	50-70	25-30	5-10
	20-28	Cobbly clay, clay loam, clay	CL	A-6, A-7	0-10	0-15	90-100	85-100	75-100	65-95	35-50	15-25
	28-38	Cobbly clay, clay loam, clay	CL	A-6, A-7	0-10	0-15	90-100	85-100	75-100	65-95	35-50	15-25
	38-60	Stony clay loam, stony clay, cobbly clay loam, clay	CL	A-6, A-7	0-35	0-35	75-100	70-100	60-90	50-85	35-45	15-20

Table 23.--Engineering index properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In.				Pct.	Pct.					Pct.	
710: Sili-----	0-3	Clay loam	CL	A-6	0	0	90-100	85-100	75-100	60-90	30-35	15-20
	3-15	Clay loam, clay, silty clay loam	CL	A-6, A-7	0	0	90-100	80-100	75-100	60-90	35-45	15-20
	15-25	Clay loam, clay, silty clay loam	CL	A-6, A-7	0	0-5	90-100	80-100	75-100	60-90	35-45	15-20
	25-50	Clay loam, clay	CL	A-6, A-7	0	0-5	90-100	80-100	75-100	60-90	35-45	15-20
	50-60	Clay loam, clay	CL	A-6, A-7	0	0-5	90-100	80-100	75-100	60-90	35-45	15-20
Zigzag-----	0-4	Gravelly clay loam	CL, GC, SC	A-6	0-5	0-10	65-75	60-70	45-65	40-60	30-40	10-20
	4-12	Silty clay loam, clay loam, clay	CL	A-6, A-7	0-5	0-5	90-100	85-100	75-100	70-95	35-45	15-20
	12-22	Weathered bedrock			---	---	---	---	---	---	---	---
711: Sili-----	0-3	Clay loam	CL	A-6	0	0	90-100	85-100	75-100	60-90	30-35	15-20
	3-15	Clay loam, clay, silty clay loam	CL	A-6, A-7	0	0	90-100	80-100	75-100	60-90	35-45	15-20
	15-25	Clay loam, clay, silty clay loam	CL	A-6, A-7	0	0-5	90-100	80-100	75-100	60-90	35-45	15-20
	25-50	Clay loam, clay	CL	A-6, A-7	0	0-5	90-100	80-100	75-100	60-90	35-45	15-20
	50-60	Clay loam, clay	CL	A-6, A-7	0	0-5	90-100	80-100	75-100	60-90	35-45	15-20
714: Helmet-----	0-2	Slightly decomposed plant material	PT		0	0	100	100	---	---	---	---
	2-4	Loam	CL-ML, CL	A-4	0	0	90-100	85-100	70-90	50-70	25-30	5-10
	4-13	Clay loam	CL	A-6	0	0-5	90-100	85-95	70-95	60-75	30-40	10-20
	13-21	Clay loam, clay	CL, CH	A-6, A-7	0	0-10	85-100	80-95	70-90	65-85	35-60	15-35
	21-28	Clay loam, clay	CL, CH	A-6, A-7	0	0-10	85-100	80-95	70-90	65-85	35-60	15-35
	28-46	Silty clay, silty clay loam, clay loam, clay	CL, CH	A-6, A-7	0	0-10	85-100	80-100	70-85	60-80	35-55	15-30
	46-62	Silty clay loam, clay loam	CL	A-6	0	0-5	85-100	85-100	75-90	65-85	30-40	10-20
718: Narraguinnep----	0-6	Clay loam	CL	A-6	0	0	90-100	80-100	75-95	60-80	30-40	10-20
	6-17	Clay, clay loam	CL	A-6, A-7	0	0	90-100	80-100	75-95	60-90	35-50	15-25
	17-23	Clay, clay loam	CL	A-6, A-7	0	0	90-100	80-100	75-95	60-90	35-50	15-25
	23-30	Silty clay loam, clay loam, clay loam, clay	CL	A-7, A-6	0	0-5	90-100	80-100	75-95	60-90	30-50	10-25
	30-60	Silty clay loam, clay loam, clay	CL	A-7, A-6	0	0	90-100	80-100	75-95	60-90	30-50	10-25
Gladlow-----	0-5	Clay loam	CL	A-6	0	0	95-100	90-100	90-100	70-80	30-40	10-20
	5-14	Silty clay loam, silty clay	ML	A-7	0	0	95-100	90-100	85-100	80-95	40-50	10-20
	14-24	Silty clay loam, silty clay	ML	A-7	0	0	95-100	90-100	85-100	80-95	40-50	10-20
	24-31	Silty clay loam, silty clay	ML	A-6, A-7, A-4	0	0	95-100	90-100	85-100	80-95	30-45	5-20
	31-60	Silty clay loam, silty clay, clay loam	CL	A-6, A-7	0	0	90-100	85-100	80-100	70-95	35-45	15-20
720: Zigzag-----	0-4	Gravelly clay loam	CL, GC, SC	A-6	0-5	0-10	65-75	60-70	45-65	40-60	30-40	10-20
	4-12	Clay loam, silty clay loam, clay	CL	A-6, A-7	0-5	0-5	90-100	85-100	75-100	70-95	35-45	15-20
	12-22	Weathered bedrock			---	---	---	---	---	---	---	---
Rock outcrop----	0-60	Unweathered bedrock			---	---	---	---	---	---	---	---

Table 23.--Engineering index properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
					Pct.	Pct.						
	In.											
723: Zigzag-----	0-4	Gravelly clay loam	CL, GC, SC	A-6	0-5	0-10	65-75	60-70	45-65	40-60	30-40	10-20
	4-12	Silty clay loam, clay loam, clay	CL	A-6, A-7	0-5	0-5	90-100	85-100	75-100	70-95	35-45	15-20
	12-22	Weathered bedrock			---	---	---	---	---	---	---	---
Rock outcrop----	0-60	Unweathered bedrock			---	---	---	---	---	---	---	---
725: Shawa-----	0-7	Loam	CL-ML, CL	A-4	0	0-5	95-100	90-100	75-95	55-75	25-30	5-10
	7-19	Loam	CL, CL-ML	A-4	0	0-5	95-100	90-100	75-95	55-75	25-30	5-10
	19-38	Clay loam, loam	CL, CL-ML	A-4, A-6	0	0-5	95-100	90-100	80-100	65-80	25-35	5-15
	38-60	Cobbly clay loam	CL	A-6	0	15-30	75-90	70-85	65-85	50-70	30-35	10-15
727: Teedown-----	0-12	Loam	CL-ML, CL	A-4	0-5	0-10	90-100	85-100	70-90	50-70	25-30	5-10
	12-20	Loam	CL, CL-ML	A-4	0-5	0-5	90-100	85-95	70-90	50-70	25-30	5-10
	20-28	Cobbly clay, clay loam, clay	CL	A-6, A-7	0-10	0-15	90-100	85-100	75-100	65-95	35-50	15-25
	28-38	Cobbly clay, clay loam, clay	CL	A-6, A-7	0-10	0-15	90-100	85-100	75-100	65-95	35-50	15-25
	38-60	Stony clay loam, stony clay, cobbly clay loam, clay	CL	A-6, A-7	0-35	0-35	75-100	70-100	60-90	50-85	35-45	15-20
Nordicol-----	0-3	Slightly decomposed plant material	PT		0	0	100	100	---	---	---	---
	3-18	Very cobbly loam	SC, GC-GM, SC-SM, GC	A-2, A-4	10-25	20-55	45-90	40-85	35-80	25-50	25-30	5-10
	18-32	Very stony sandy loam, very cobbly sandy clay loam	SC, SC-SM	A-2	15-50	10-50	65-85	55-85	35-65	20-35	25-35	5-15
	32-63	Extremely cobbly sandy clay loam, very stony sandy clay loam, very stony loam, very stony clay loam	SC-SM, GC-GM, GC, SC	A-4, A-2, A-6	25-50	20-70	45-80	40-70	35-65	25-50	25-35	5-15
730: Baird Hollow----	0-2	Slightly decomposed plant material	PT		0	0	100	100	---	---	---	---
	2-9	Loam	CL, CL-ML	A-4	0-5	0-10	90-100	80-95	70-85	60-70	25-30	5-10
	9-20	Loam	CL, CL-ML	A-4	0-5	0-10	90-100	80-95	70-85	60-70	25-30	5-10
	20-29	Very cobbly sandy clay loam, very cobbly clay loam, gravelly loam	GC, CL, GC-GM, CL-ML	A-4, A-6	0-5	20-50	60-90	55-80	50-70	35-60	25-35	5-15
	29-62	Very cobbly clay, very cobbly clay loam	GC, CL	A-7, A-6	0-5	30-65	60-95	50-90	45-85	35-75	35-45	15-20

Table 23.--Engineering index properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In.				Pct.	Pct.					Pct.	
730: Nordicol-----	0-1	Slightly decomposed plant material	PT		0	0	100	100	---	---	---	---
	1-20	Very cobbly loam	SC-SM, SC, GC, GC-GM	A-2, A-4	10-25	20-55	45-90	40-85	35-80	25-50	25-30	5-10
	20-28	Very stony sandy loam, stony sandy loam	SC-SM, SC	A-2	15-55	10-30	65-85	55-85	35-65	20-35	25-30	5-10
	28-52	Very stony sandy clay loam, very stony loam, very stony clay loam	GC, SC	A-2, A-6	25-55	10-30	45-80	40-70	35-65	25-50	25-35	5-15
	52-61	Extremely stony sandy loam, very stony loam	SC-SM, SC, GC-GM, GC	A-2	20-70	20-50	45-70	35-60	25-40	15-30	25-30	5-10
Ryman-----	0-13	Silty clay loam	ML	A-4, A-6, A-7	0	0	95-100	95-100	90-95	85-95	30-50	5-20
	13-19	Silty clay loam	ML	A-4, A-6, A-7	0	0	95-100	95-100	90-95	85-95	30-50	5-20
	19-36	Clay, clay loam	CL	A-6, A-7	0-10	0-15	85-100	80-95	70-95	60-90	35-45	15-20
	36-60	Cobbly clay loam, cobbly clay	CL	A-6, A-7	0-10	15-45	85-95	75-95	70-95	55-75	35-45	15-20
731: Ryman-----	0-13	Silty clay loam	ML	A-4, A-6, A-7	0	0	95-100	95-100	90-95	85-95	30-50	5-20
	13-19	Silty clay loam	ML	A-4, A-6, A-7	0	0-15	95-100	95-100	90-95	85-95	30-50	5-20
	19-36	Clay, clay loam	CL	A-6, A-7	0-10	0-15	85-100	80-95	70-95	60-90	35-45	15-20
	36-60	Cobbly clay loam, cobbly clay	CL	A-6, A-7	0-10	15-45	85-95	75-95	70-95	55-75	35-45	15-20
Adel-----	0-14	Loam	CL-ML, CL	A-4	0	0-5	85-100	80-95	70-95	55-75	25-30	5-10
	14-24	Loam	CL-ML, CL	A-4	0	0-5	85-100	80-95	70-95	50-75	25-30	5-10
	24-36	Loam, clay loam	CL-ML, CL	A-4	0	0-5	85-100	75-95	70-90	50-80	25-30	5-10
	36-60	Clay loam, gravelly clay loam, gravelly loam	CL-ML, CL, SC-SM	A-4, A-6	0	0-5	65-100	60-95	55-90	45-75	25-35	5-15
732: Adel-----	0-14	Loam	CL, CL-ML	A-4	0	0-5	85-100	80-95	70-95	55-75	25-30	5-10
	14-24	Loam	CL, CL-ML	A-4	0	0-5	85-100	80-95	70-95	50-75	25-30	5-10
	24-36	Loam, clay loam	CL, CL-ML	A-4	0	0-5	85-100	75-95	70-90	50-80	25-30	5-10
	36-60	Clay loam, gravelly clay loam, gravelly loam	SC-SM, CL, CL-ML	A-4, A-6	0	0-5	65-100	60-95	55-90	45-75	25-35	5-15
Quazar-----	0-12	Very cobbly loam	SC, CL, GC, SC-SM	A-2, A-4	0-25	20-60	45-90	40-85	35-80	25-65	25-30	5-10
	12-26	Very gravelly clay loam, extremely gravelly clay loam, very gravelly sandy clay loam, extremely cobbly clay loam, extremely cobbly sandy clay loam	GC, CL-ML, CL, SC-SM, SC, GC-GM	A-4, A-2, A-6	0-20	15-65	30-75	25-70	15-65	10-60	25-35	5-15
	26-60	Extremely gravelly clay loam	GC, GC-GM	A-2	0-20	15-35	15-30	10-25	10-25	5-20	30-35	10-15
733: Adel-----	0-14	Loam	CL, CL-ML	A-4	0	0-5	85-100	80-95	70-95	55-75	25-30	5-10
	14-24	Loam	CL, CL-ML	A-4	0	0-5	85-100	80-95	70-95	50-75	25-30	5-10
	24-36	Loam, clay loam	CL, CL-ML	A-4	0	0-5	85-100	75-95	70-90	50-80	25-30	5-10
	36-60	Clay loam, gravelly clay loam, gravelly loam	CL-ML, CL, SC-SM	A-4, A-6	0	0-10	65-100	60-95	55-90	45-75	25-35	5-15

Table 23.--Engineering index properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In.				Pct.	Pct.					Pct.	
733: Bucklon-----	0-1	Clay loam, loam	CL-ML, CL	A-6, A-4	0	0-5	90-100	85-95	75-90	50-75	25-35	5-15
	1-12	Clay loam, loam	CL, CL-ML	A-6, A-4	0	0-5	90-100	85-95	75-90	50-75	25-35	5-15
	12-22	Weathered bedrock			---	---	---	---	---	---	---	---
734: Ryman-----	0-13	Silty clay loam	ML	A-4, A-6, A-7	0	0	95-100	95-100	90-95	85-95	30-50	5-20
	13-19	Silty clay loam	ML	A-4, A-6, A-7	0	0	95-100	95-100	90-95	85-95	30-50	5-20
	19-36	Clay, clay loam	CL	A-6, A-7	0-10	0-15	85-100	80-95	70-95	60-90	35-45	15-20
	36-60	Cobbly clay loam, cobbly clay	CL	A-6, A-7	0-10	15-45	85-95	75-95	70-95	55-75	35-45	15-20
Clayburn-----	0-5	Loam	CL-ML, CL	A-4	0	0-5	90-100	80-95	70-90	60-75	25-30	5-10
	5-13	Loam	CL-ML, CL	A-4	0	0-5	90-100	80-95	70-90	60-75	25-30	5-10
	13-18	Loam, clay loam, sandy clay loam	SC-SM, CL-ML, SC, CL	A-4, A-6	0-10	0-10	90-100	80-100	70-90	45-75	25-35	5-15
	18-36	Loam, clay loam, sandy clay loam	CL, SC, CL- ML, SC-SM	A-4, A-6	0-10	0-10	90-100	80-100	70-90	45-75	25-35	5-15
	36-48	Loam, clay loam, sandy clay loam	CL-ML, SC, CL, SC-SM	A-4, A-6	0-10	0-10	90-100	80-100	70-90	45-75	25-35	5-15
	48-60	Clay loam, sandy clay loam, loam	CL, SC-SM, CL-ML, SC	A-6, A-2, A-4	0-5	0-5	85-95	80-90	60-75	30-60	25-35	5-15
740: Cowntown-----	0-3	Loam	CL-ML, CL	A-4	0	0-20	85-100	80-100	70-95	50-75	25-30	5-10
	3-5	Silt loam	ML	A-4	0	0-10	85-100	80-100	75-100	55-90	30-35	5-10
	5-16	Cobbly silt loam	ML	A-4	0	15-35	75-100	70-95	65-85	50-75	30-35	5-10
	16-33	Silty clay, clay, clay loam	CL	A-6, A-7	0	0-10	85-100	80-100	75-100	75-95	35-50	15-25
	33-60	Silty clay, clay, clay loam	CL	A-6, A-7	0	0-10	85-100	80-100	75-100	75-95	35-50	15-25
Scout-----	0-1	Slightly decomposed plant material	PT		0	0	100	100	---	---	---	---
	1-2	Silt loam	ML	A-4	0	0	85-100	80-100	75-95	65-90	30-35	5-10
	2-9	Very cobbly silt loam, very cobbly loam	GC, SC, CL, CL-ML	A-2, A-4	0-25	20-70	45-90	40-85	35-85	25-75	25-30	5-10
	9-17	Very cobbly loam	CL, SC, GC, CL-ML	A-2, A-4	0-25	20-70	45-90	40-85	35-80	25-65	25-30	5-10
	17-61	Very gravelly loam, very cobbly loam	CL-ML, SM, ML, GM	A-2, A-4	0-25	20-70	45-90	40-85	35-80	25-65	20-25	NP-5
741: Cowntown-----	0-3	Loam	CL, CL-ML	A-4	0	0-20	85-100	80-100	70-95	50-75	25-30	5-10
	3-5	Silt loam	ML	A-4	0	0-10	85-100	80-100	75-100	55-90	30-35	5-10
	5-16	Cobbly silt loam	ML	A-4	0	15-35	75-100	70-95	65-85	50-75	30-35	5-10
	16-33	Silty clay, clay, clay loam	CL	A-6, A-7	0	0-10	85-100	80-100	75-100	75-95	35-50	15-25
	33-60	Silty clay, clay, clay loam	CL	A-7, A-6	0	0-10	85-100	80-100	75-100	75-95	35-50	15-25
Scout-----	0-1	Slightly decomposed plant material	PT		0	0	100	100	---	---	---	---
	1-2	Silt loam	ML	A-4	0	0	85-100	80-100	75-95	65-90	30-35	5-10
	2-9	Very cobbly silt loam, very cobbly loam	SC, CL, CL- ML, GC	A-2, A-4	0-25	20-70	45-90	40-85	35-85	25-75	25-30	5-10
	9-17	Very cobbly loam	CL-ML, CL, GC, SC	A-2, A-4	0-25	20-70	45-90	40-85	35-80	25-65	25-30	5-10
	17-61	Very gravelly loam, very cobbly loam	CL-ML, GM, ML, SM	A-2, A-4	0-25	20-70	45-90	40-85	35-80	25-65	20-25	NP-5

Table 23.--Engineering index properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In.				Pct.	Pct.					Pct.	
750: Archuleta-----	0-3	Stony clay loam	CL	A-6	10-40	5-20	75-90	70-85	65-85	50-70	30-35	10-15
	3-16	Clay loam, stony clay loam	CL	A-6	0-30	0-20	75-100	70-100	65-85	50-80	30-35	10-15
	16-26	Weathered bedrock			---	---	---	---	---	---	---	---
Sheek-----	0-1	Slightly decomposed plant material	PT		0	0	100	100	---	---	---	---
	1-6	Very stony sandy loam	SC, GC, GC- GM, SC-SM	A-1, A-2	25-70	10-50	45-85	40-80	25-60	15-35	25-30	5-10
	6-8	Very stony sandy loam	GC, GC-GM, SC, SC-SM	A-1, A-2	25-70	10-50	45-85	40-80	25-60	15-35	25-30	5-10
	8-24	Very cobbly loam, very stony sandy clay loam	CL-ML, SC-SM, CL, GC, SC	A-4, A-2, A-6	10-60	10-60	45-85	40-80	35-75	30-70	25-35	5-15
	24-43	Very gravelly loam, very stony clay loam, very cobbly clay loam	CL-ML, SC-SM, CL, GC, SC	A-4, A-2, A-6	10-60	20-50	45-90	40-85	35-80	30-70	25-35	5-15
	43-61	Very stony clay loam, very cobbly clay loam, very stony sandy clay loam	CL, GC, SC	A-2, A-6	25-60	25-40	45-90	40-85	35-85	30-70	30-35	5-15
801: Fughes-----	0-7	Loam	CL-ML, CL	A-4	5-15	0-5	90-100	85-100	75-95	50-75	25-30	5-10
	7-26	Clay loam	CL	A-6	0-5	0-5	90-100	85-100	80-100	60-80	30-40	10-20
	26-44	Clay, clay loam	CL	A-6, A-7	0-5	0-10	90-100	85-100	80-100	60-80	35-50	15-25
	44-60	Clay loam, clay	CL, CH	A-7, A-6	0-5	0-5	90-100	85-100	80-100	60-90	35-60	20-40
Sheek-----	0-2	Very cobbly clay loam	GC	A-2, A-6	0-10	20-60	55-65	50-60	35-60	30-50	30-35	10-15
	2-7	Gravelly clay loam	SC, CL	A-6	0-5	0-10	65-85	60-80	45-80	40-60	30-35	10-15
	7-20	Very cobbly clay loam	SC, CL	A-2, A-6	0-10	20-60	75-85	70-80	35-80	30-75	30-35	10-15
	20-29	Very cobbly loam	SC, CL, CL- ML, SC-SM	A-4	0-10	20-60	50-85	45-80	35-80	35-65	25-30	5-10
	29-46	Cobbly clay loam	CL	A-6	0-10	15-40	75-85	70-80	65-80	50-75	30-35	10-15
	46-60	Very cobbly loam	GC-GM, SC, CL-ML, CL	A-2, A-4	0-10	20-60	65-80	60-75	30-75	30-70	25-30	5-10
802: Argiustolls----	0-1	Slightly decomposed plant material	PT		0	0	100	100	---	---	---	---
	1-4	Extremely stony loam	GC-GM, GC, SC, SC-SM	A-1, A-2, A-4	30-80	10-50	20-65	15-60	15-55	10-40	25-30	5-10
	4-7	Extremely stony clay loam, extremely stony loam	GC, SC	A-2, A-6, A-4	30-80	10-50	20-65	15-60	15-55	10-45	30-40	5-20
	7-13	Extremely stony clay loam, extremely stony loam	GC, SC	A-2, A-6, A-4	30-80	10-50	20-65	15-60	15-55	10-45	30-40	5-20
	13-20	Very stony clay loam, extremely stony loam	CL, GC, SC	A-2, A-6, A-4	25-60	5-40	45-75	40-70	35-70	30-55	30-40	5-20
	20-37	Cobbly clay loam, cobbly clay	CL, CH	A-6, A-7	0-10	15-40	80-95	75-90	70-85	55-80	35-65	15-40
	37-50	Cobbly clay loam, cobbly clay	CH, CL	A-6, A-7	0-10	15-40	80-95	75-90	70-85	55-80	35-65	15-40
	50-61	Clay	CL, CH	A-7	0-5	0-10	90-100	85-100	80-95	75-90	40-65	20-40

Table 23.--Engineering index properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In.				Pct.	Pct.					Pct.	
802: Haplustalfs----	0-2	Very stony loam	SC-SM, SC, GC-GM, GC	A-2, A-4	25-70	5-50	45-85	40-80	35-70	25-50	25-30	5-10
	2-5	Very stony loam	SC-SM, SC, GC-GM, GC	A-2, A-4	25-70	5-50	45-85	40-80	35-70	25-50	25-30	5-10
	5-10	Very stony clay loam, very cobbly loam	SC, CL, GC	A-2, A-6	25-60	5-40	45-75	40-70	35-70	30-55	30-35	10-15
	10-24	Very stony clay, very stony clay loam, very cobbly clay, clay	GC, CL	A-7, A-6	10-60	10-50	50-90	45-90	40-80	35-75	30-50	10-25
	24-41	Very stony clay, very stony clay loam, very cobbly clay, clay	GC, CL	A-7, A-6	10-60	10-50	50-90	45-90	40-80	35-75	30-50	10-25
	41-55	Very stony clay, very cobbly clay loam	CH, GC, CL	A-7, A-6	10-60	10-50	50-85	45-85	40-80	35-75	30-60	10-40
	55-60	Extremely stony clay, very cobbly clay loam	GC, CH, CL	A-7, A-6	10-60	10-50	50-85	45-85	40-80	35-75	30-60	10-40
Rock outcrop----	0-60	Unweathered bedrock			---	---	---	---	---	---	---	---
804: Wauquie-----	0-3	Very cobbly loam	CL-ML, SC-SM, CL, SC	A-2, A-4	5-15	25-60	60-90	45-85	40-70	30-60	25-30	5-10
	3-9	Very cobbly clay loam, very cobbly loam	CL, SC, GC- GM, SC-SM, CL-ML	A-2, A-4, A-6	5-15	25-60	50-90	40-85	35-75	30-65	25-35	5-15
	9-14	Very cobbly clay loam, very cobbly loam	CL, GC-GM, CL-ML, SC, SC-SM	A-6, A-4, A-2	5-25	25-60	45-90	40-85	35-80	25-65	25-35	5-15
	14-23	Gravelly clay loam, very gravelly loam, very cobbly clay loam	CL-ML, SC-SM, SC, GC-GM, GC, CL	A-2, A-4, A-6	0-25	5-60	45-90	40-85	35-85	25-70	25-35	5-15
	23-32	Gravelly clay loam, very cobbly loam, gravelly loam	SC-SM, GC, CL, GC-GM, CL-ML, SC	A-2, A-4, A-6	0-25	5-60	45-90	40-85	35-85	25-70	25-35	5-15
	32-60	Gravelly clay loam, very gravelly loam	GC-GM, GC, SC, SC-SM, CL-ML, CL	A-2, A-4, A-6	0-25	5-25	45-90	40-85	35-85	25-70	25-35	5-15
Dolcan-----	0-4	Cobbly clay loam	CL	A-6	5-10	15-40	75-90	70-85	65-85	50-70	30-35	10-15
	4-9	Gravelly clay loam, cobbly clay loam, gravelly loam, clay loam	SC-SM, CL-ML, CL, SC	A-6, A-4	0-10	0-35	60-90	55-90	50-80	35-70	25-35	5-15
	9-16	Gravelly clay loam, cobbly clay loam, gravelly loam, clay loam	CL, SC, CL- ML, SC-SM	A-6, A-4	0-10	0-35	60-90	55-90	50-80	35-70	25-35	5-15
	16-26	Weathered bedrock			---	---	---	---	---	---	---	---
Rock outcrop----	0-60	Unweathered bedrock			---	---	---	---	---	---	---	---
805: Shawa-----	0-7	Loam	CL, CL-ML	A-4	0	0-5	95-100	90-100	75-95	55-75	25-30	5-10
	7-19	Loam	CL-ML, CL	A-4	0	0-5	95-100	90-100	75-95	55-75	25-30	5-10
	19-38	Cobbly loam, clay loam, loam	CL, CL-ML	A-4, A-6	0	0-30	95-100	85-100	80-100	65-80	25-35	5-15
	38-60	Cobbly clay loam	CL	A-6	0	15-30	75-90	70-85	65-85	50-70	30-35	10-15

Table 23.--Engineering index properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
					Pct.	Pct.						
805: Fughes-----	In.				Pct.	Pct.					Pct.	
	0-1	Slightly decomposed plant material	PT		0	0	100	100	---	---	---	---
	1-8	Loam	CL, CL-ML	A-4	0-5	0-5	90-100	90-100	75-95	60-95	25-30	5-10
	8-27	Clay loam	CL	A-6	0-5	0-5	90-100	90-100	80-100	65-80	30-40	10-20
	27-45	Clay loam, clay	CL	A-6, A-7	0-5	0-10	90-100	90-100	80-100	70-90	35-50	15-25
	45-61	Clay, clay loam	CH, CL	A-6, A-7	0-5	0-5	90-100	90-100	80-100	70-90	35-60	20-40
806: Shawa-----	0-7	Loam	CL, CL-ML	A-4	0	0-5	95-100	90-100	75-95	55-75	25-30	5-10
	7-19	Loam	CL, CL-ML	A-4	0	0-5	95-100	90-100	75-95	55-75	25-30	5-10
	19-38	Cobbly loam, clay loam, loam	CL-ML, CL	A-4, A-6	0	0-30	95-100	85-100	80-100	65-80	25-35	5-15
	38-60	Cobbly clay loam	CL	A-6	0	15-30	75-90	70-85	65-85	50-70	30-35	10-15
	0-1	Slightly decomposed plant material	PT		0	0	100	100	---	---	---	---
Fughes-----	1-8	Loam	CL-ML, CL	A-4	0-5	0-5	90-100	90-100	75-95	60-95	25-30	5-10
	8-27	Clay loam	CL	A-6	0-5	0-5	90-100	90-100	80-100	65-80	30-40	10-20
	27-45	Clay loam, clay	CL	A-7, A-6	0-5	0-10	90-100	90-100	80-100	70-90	35-50	15-25
	45-61	Clay loam, clay	CH, CL	A-7, A-6	0-5	0-5	90-100	90-100	80-100	70-90	35-60	20-40
	809: Argiustolls----	0-1	Slightly decomposed plant material	PT		0	0	100	100	---	---	---
1-4		Extremely stony loam	GC, GC-GM, SC, SC-SM	A-1, A-2, A-4	30-80	10-50	20-65	15-60	15-55	10-40	25-30	5-10
4-7		Extremely stony clay loam, extremely stony loam	GC, SP-SC, SC, GP-GC	A-2, A-4, A-6	30-80	10-50	20-65	15-60	15-55	10-45	30-40	5-20
7-13		Extremely stony clay loam, extremely stony loam	SP-SC, SC, GP-GC, GC	A-2, A-4, A-6	30-80	10-50	20-65	15-60	15-55	10-45	30-40	5-20
13-20		Very stony clay loam, extremely stony loam	SC, GC, CL	A-2, A-4, A-6	25-60	5-40	45-75	40-70	35-70	30-55	30-40	5-20
20-37		Cobbly clay loam, cobbly clay	CL, CH	A-6, A-7	0-10	15-40	80-95	75-90	70-85	55-80	35-65	15-40
37-50		Cobbly clay loam, cobbly clay	CL, CH	A-6, A-7	0-10	15-40	80-95	75-90	70-85	55-80	35-65	15-40
50-61		Clay	CH, CL	A-7	0-5	0-10	90-100	85-100	80-95	75-90	40-65	20-40
Haplustalfs----		0-2	Very stony loam	SC-SM, SC, GC-GM, GC	A-2, A-4	25-70	5-50	45-85	40-80	35-70	25-50	25-30	5-10
	2-5	Very stony loam	SC-SM, SC, GC-GM, GC	A-2, A-4	25-70	5-50	45-85	40-80	35-70	25-50	25-30	5-10
	5-10	Very stony clay loam, very cobbly loam	CL, GC, SC	A-2, A-6	25-60	5-40	45-75	40-70	35-70	30-55	30-35	10-15
	10-24	Very stony clay, very stony clay loam, very cobbly clay, clay	GC, CL	A-7, A-6	10-60	10-50	50-90	45-90	40-80	35-75	30-50	10-25
	24-41	Very stony clay, very stony clay loam, very cobbly clay, clay	GC, CL	A-7, A-6	10-60	10-50	50-90	45-90	40-80	35-75	30-50	10-25
	41-55	Very stony clay, very cobbly clay loam	CH, CL, GC	A-6, A-7	10-60	10-50	50-85	45-85	40-80	35-75	30-60	10-40
	55-60	Extremely stony clay, very cobbly clay loam	CH, GC, CL	A-6, A-7	10-60	10-50	50-85	45-85	40-80	35-75	30-60	10-40

Table 23.--Engineering index properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
					Pct.	Pct.					Pct.	
813: Fughes-----	0-7	Silty clay loam	ML	A-4, A-6	0-5	0-5	95-100	90-100	85-95	80-95	30-45	5-15
	7-26	Clay loam	CL	A-6	0-5	0-10	90-100	90-100	80-100	65-80	30-40	10-20
	26-44	Clay loam, clay	CL	A-6, A-7	0-10	0-5	90-100	90-100	80-100	70-90	35-50	15-25
	44-60	Clay loam, clay	CH, CL	A-6, A-7	0-5	0-5	90-100	90-100	80-100	70-90	35-60	20-40
814: Leaps-----	0-3	Clay loam	CL	A-6	0	0	85-100	80-100	75-90	60-80	30-40	10-20
	3-7	Clay loam	CL	A-6	0	0	85-100	80-100	75-90	60-80	30-40	10-20
	7-14	Clay loam	CL	A-6	0	0	85-100	80-100	75-90	60-80	30-40	10-20
	14-22	Clay loam, clay	CL, CH	A-7, A-6	0	0	85-100	75-100	70-90	65-80	35-60	15-35
	22-60	Clay loam, clay	CH, CL	A-7, A-6	0	0	85-100	75-100	70-90	65-80	35-60	15-35
Hofly-----	0-7	Loam	CL-ML	A-4	0	0-5	90-100	80-100	70-85	50-70	25-30	5-10
	7-30	Clay loam	CL	A-6	0	0-5	95-100	90-100	75-90	60-80	35-40	15-20
	30-60	Clay, clay loam	CL	A-6, A-7	0	0-5	90-100	85-100	75-95	60-90	35-45	15-25
815: Behanco-----	0-2	Loam	CL, CL-ML	A-4	0	0-5	95-100	90-95	70-90	50-70	25-30	5-10
	2-17	Very flaggy loam	GC, GC-GM	A-4	0	30-45	60-70	55-65	50-60	35-50	25-30	5-10
	17-25	Very channery loam, very flaggy loam	GC-GM, GC	A-2	0	15-25	40-50	35-45	30-40	25-35	25-30	5-10
	25-33	Very channery loam, very flaggy loam	GC, GC-GM	A-2	0	15-25	40-50	35-45	30-40	25-35	25-30	5-10
	33-45	Very channery sand	SP, SP-SM	A-1	0	15-25	55-65	50-60	30-40	0-5	0-0	NP
	45-47	Clay	CH, CL	A-7	0	0-5	95-100	90-95	85-90	70-85	45-60	20-30
	47-59	Weathered bedrock			---	---	---	---	---	---	---	---
	59-63	Bedrock			---	---	---	---	---	---	---	---
Powderhorn family-----	0-1	Moderately decomposed plant material	PT		0	0	100	100	---	---	---	---
	1-4	Loam	CL-ML, CL	A-4	0-5	0-5	90-100	85-100	75-95	55-75	25-30	5-10
	4-12	Loam	CL, CL-ML	A-4	0-5	0-5	90-100	85-100	75-95	55-75	25-30	5-10
	12-24	Loam	CL, CL-ML	A-4	0-5	0-5	90-100	85-100	75-95	55-75	25-30	5-10
	24-32	Cobbly clay, cobbly clay loam	CH, CL	A-6, A-7	0-5	15-40	70-90	65-85	60-85	50-80	35-65	15-40
	32-41	Clay	CH, CL	A-7	0-5	0-5	90-100	85-100	80-100	65-95	40-65	20-40
	41-60	Clay	CH, CL	A-7	0-5	0-5	90-100	85-100	80-100	65-95	40-65	20-40
	60-64	Unweathered bedrock			---	---	---	---	---	---	---	---
816: Storm-----	0-2	Moderately decomposed plant material	PT		0	0	100	100	---	---	---	---
	2-6	Extremely flaggy loam	GC, GC-GM, GP-GC	A-1, A-2	30-65	10-50	20-55	15-50	10-45	5-35	25-30	5-10
	6-13	Extremely flaggy loam	GC, GC-GM, GP-GC	A-1, A-2	30-65	10-50	20-55	15-50	10-45	5-35	25-30	5-10
	13-19	Extremely flaggy clay loam, extremely flaggy sandy clay loam	GC, GC-GM	A-4, A-2, A-6	30-65	15-50	30-55	25-50	20-45	15-40	25-35	5-15
	19-31	Very gravelly clay loam, very gravelly sandy clay loam, very gravelly loam	GC	A-4, A-2, A-6	5-20	5-15	40-55	35-50	30-45	25-40	25-35	5-15
	31-40	Extremely cobbly sandy clay loam, extremely cobbly clay loam	GC-GM, GC	A-4, A-2, A-6	5-20	30-70	35-70	30-65	25-60	20-50	25-35	5-15
	40-48	Very gravelly loam	GC, GC-GM	A-2	5-20	5-25	40-55	35-50	30-45	25-35	25-30	5-10
	48-56	Extremely gravelly loam	GP-GC, GC-GM, GC	A-1, A-2	5-30	10-30	15-30	10-25	10-25	5-20	25-35	5-15
	56-62	Extremely gravelly clay loam	GC, GC-GM, GP-GC	A-1, A-2	5-30	10-30	15-30	10-25	10-25	5-20	25-35	5-15

Table 23.--Engineering index properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In.				Pct.	Pct.					Pct.	
826: Ute-----	0-2	Moderately decomposed plant material	PT		0	0	100	100	---	---	---	---
	2-7	Loam	CL-ML, CL	A-4	0	0	85-100	80-100	70-95	50-75	25-30	5-10
	7-13	Clay, clay loam	CL	A-7	0	0-10	85-100	80-100	65-100	60-95	35-50	15-25
	13-28	Clay, clay loam	CL	A-7	0	0-10	85-100	80-100	65-100	60-95	35-50	15-25
	28-45	Clay, clay loam	CL	A-7	0	0-10	85-100	80-100	65-100	60-95	35-50	15-25
	45-62	Clay loam, loam, gravelly clay loam	CL-ML, CL, GC, SC	A-4, A-6	0	0-10	65-100	60-95	50-80	35-60	25-35	5-15
Frisco-----	0-2	Slightly decomposed plant material	PT		0	0	100	100	---	---	---	---
	2-5	Loam	CL, CL-ML	A-4	0-5	0-10	85-100	80-100	70-90	55-70	25-30	5-10
	5-11	Loam	CL, CL-ML	A-4	0-5	0-10	85-100	80-100	70-90	55-70	25-30	5-10
	11-19	Cobbly loam, stony loam	SC, CL-ML, SC, SC-SM	A-4	10-20	10-25	75-90	70-90	60-80	45-65	25-30	5-10
	19-48	Extremely stony sandy clay loam, very cobbly clay loam	SC, SC-SM, GC-GM, GC	A-1, A-2, A- 4, A-6	25-65	20-50	35-80	25-70	20-55	15-50	25-35	5-15
	48-62	Extremely stony loam	SC-SM, SC, GC-GM, GC	A-1, A-2, A-4	30-65	15-40	35-80	25-70	20-55	15-50	25-30	5-10
830: Dressel-----	0-2	Slightly decomposed plant material	PT		0	0	100	100	---	---	---	---
	2-8	Gravelly loam	CL, CL-ML, SC, SC-SM	A-4	0-10	0-10	60-80	55-75	50-70	35-55	25-30	5-10
	8-19	Very stony loam	SC, SC-SM, GC, GC-GM	A-2, A-4	25-50	10-30	45-90	40-85	35-70	25-50	25-30	5-10
	19-23	Very cobbly sandy clay loam	SC-SM, SC, GC-GM, GC	A-2, A-4	0-15	20-50	45-90	40-85	35-75	15-45	25-30	5-10
	23-30	Very cobbly sandy clay loam	GC, GC-GM, SC, SC-SM	A-2, A-4	0-15	20-50	45-90	40-85	35-75	15-45	25-30	5-10
	30-36	Extremely cobbly loam, very cobbly clay loam	GC, GC-GM, SC-SM, SC	A-6, A-2, A-4	5-30	25-70	45-80	40-75	35-70	25-50	25-35	5-15
	36-45	Extremely cobbly loam, very cobbly clay loam	GC-GM, SC, GC, SC-SM	A-6, A-2, A-4	5-30	25-70	45-80	40-75	35-70	25-50	25-35	5-15
	45-53	Extremely cobbly loam, very cobbly clay loam	SC-SM, GC, SC, GC-GM	A-6, A-2, A-4	5-30	25-70	45-80	40-75	35-70	25-50	25-35	5-15
	53-62	Very cobbly loam, very cobbly clay loam	SC-SM, GC, GC-GM, SC	A-6, A-2, A-4	0-20	20-50	45-90	40-85	35-70	25-50	25-35	5-15

Table 23.--Engineering index properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
					Pct.	Pct.						
830: Jersey-----	<u>In.</u>				<u>Pct.</u>	<u>Pct.</u>					<u>Pct.</u>	
	0-1	Moderately decomposed plant material	PT		0	0	100	100	---	---	---	---
	1-8	Very cobbly loam	GC, GC-GM, CL-ML, CL	A-4	0-15	20-60	50-85	45-80	40-75	35-65	25-30	5-10
	8-13	Very cobbly clay loam	GC, SC, CL	A-2, A-6	0-20	20-60	45-85	40-80	35-70	30-65	30-40	10-20
	13-18	Very cobbly clay loam, very cobbly clay	GC, CL	A-6, A-2, A-7	5-25	20-60	45-90	40-85	35-80	30-75	35-45	15-20
	18-26	Extremely stony clay loam, very cobbly clay	GC, CL	A-6, A-2, A-7	15-50	20-60	45-90	40-85	35-80	30-75	35-45	15-20
	26-37	Very cobbly clay loam, very cobbly clay	GC, CL	A-6, A-2, A-7	5-25	20-60	45-90	40-85	35-80	30-75	35-45	15-20
	37-47	Very cobbly clay, very cobbly clay loam, extremely stony clay	GC, CL	A-6, A-2, A-7	15-50	20-60	45-90	40-85	35-80	30-70	35-45	15-20
	47-61	Very cobbly clay, very cobbly clay loam	GC, CL	A-6, A-2, A-7	5-25	20-60	45-90	40-85	35-80	30-70	35-45	15-20
	832: Storm-----	0-2	Moderately decomposed plant material	PT		0	0	100	100	---	---	---
2-6		Extremely flaggy loam	GP-GC, GC-GM, GC	A-1, A-2	30-65	10-50	20-55	15-50	10-45	5-35	25-30	5-10
6-13		Extremely flaggy loam	GC-GM, GC, GP-GC	A-1, A-2	30-65	10-50	20-55	15-50	10-45	5-35	25-30	5-10
13-19		Extremely flaggy clay loam, extremely flaggy sandy clay loam	GC, GC-GM	A-2, A-6, A-4	30-65	15-50	30-55	25-50	20-45	15-40	25-35	5-15
19-31		Very gravelly clay loam, very gravelly sandy clay loam, very gravelly loam	GC	A-4, A-2, A-6	5-20	5-15	40-55	35-50	30-45	25-40	25-35	5-15
31-40		Extremely cobbly sandy clay loam, extremely cobbly clay loam	GC-GM, GC	A-4, A-2, A-6	5-20	30-70	35-70	30-65	25-60	20-50	25-35	5-15
40-48		Very gravelly loam	GC, GC-GM	A-2	5-20	0-25	40-55	35-50	30-45	25-35	25-30	5-10
48-56		Extremely gravelly clay loam, extremely gravelly loam	GC-GM, GP-GC, GC	A-1, A-2	5-30	10-30	15-30	10-25	10-25	5-20	25-35	5-15
56-62		Extremely gravelly clay loam	GP-GC, GC, GC-GM	A-1, A-2	5-30	10-30	15-30	10-25	10-25	5-20	25-35	5-15

Table 23.--Engineering index properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In.				Pct.	Pct.					Pct.	
834: Haycamp-----	0-1	Slightly decomposed plant material	PT		0	0	100	100	---	---	---	---
	1-5	Cobbly clay loam	CL	A-6	0-10	15-45	80-95	75-90	70-85	55-70	30-35	10-15
	5-13	Cobbly clay, gravelly clay loam	CL	A-6, A-7	0-10	15-45	75-95	70-90	65-80	60-80	35-50	15-25
	13-21	Cobbly clay, gravelly clay loam	CL	A-6, A-7	0-10	15-45	75-95	70-90	65-80	60-80	35-50	15-25
	21-30	Clay loam, clay, cobbly clay loam	CL	A-6, A-7	0-5	0-25	85-100	75-95	70-95	65-90	35-50	15-25
	30-38	Clay loam, clay, cobbly clay loam	CL	A-6, A-7	0-5	0-25	85-100	75-95	70-95	65-90	35-50	15-25
	38-56	Cobbly clay loam, gravelly clay	CL, CH	A-6, A-7	0-10	5-25	60-80	55-75	50-75	50-70	35-65	15-40
	56-61	Very cobbly clay loam, cobbly clay	CL, GC	A-7, A-6	0-15	20-60	55-70	50-65	50-65	40-60	35-45	15-25
Jersey-----	0-1	Moderately decomposed plant material	PT		0	0	100	100	---	---	---	---
	1-8	Very cobbly loam	CL-ML, GC-GM, GC, CL	A-4	0-15	20-60	50-85	45-80	40-75	35-65	25-30	5-10
	8-13	Very cobbly clay loam	CL, SC, GC	A-2, A-6	0-20	20-60	45-85	40-80	35-70	30-65	30-40	10-20
	13-18	Very cobbly clay loam, very cobbly clay	GC, CL	A-6, A-2, A-7	5-25	20-60	45-90	40-85	35-80	30-75	35-45	15-20
	18-26	Extremely stony clay loam, very cobbly clay	GC, CL	A-6, A-2, A-7	15-50	20-60	45-90	40-85	35-80	30-75	35-45	15-20
	26-37	Very cobbly clay loam, very cobbly clay	CL, GC	A-6, A-2, A-7	5-25	20-60	45-90	40-85	35-80	30-75	35-45	15-20
	37-47	Very cobbly clay, very cobbly clay loam, extremely stony clay	GC, CL	A-6, A-2, A-7	15-50	20-60	45-90	40-85	35-80	30-70	35-45	15-20
	47-61	Very cobbly clay, very cobbly clay loam	GC, CL	A-6, A-2, A-7	5-25	20-60	45-90	40-85	35-80	30-70	35-45	15-20
835: Brumley-----	0-2	Loam	CL-ML	A-4	0	0	100	100	70-90	50-70	25-30	5-10
	2-17	Sandy clay loam, clay loam	CL, SC	A-6	0	0-10	90-100	85-100	75-95	45-80	25-35	10-15
	17-25	Sandy clay loam, clay loam	SC, CL	A-6	0	0-10	90-100	85-100	75-95	45-80	25-35	10-15
	25-40	Sandy clay loam, loam, clay loam	CL-ML, CL, SC, SC-SM	A-4, A-6	0	0-10	90-100	85-100	70-90	40-80	25-35	5-15
	40-60	Sandy clay loam, loam, clay loam	SC, CL, CL- ML, SC-SM	A-4, A-6	0	0-10	90-100	85-100	70-90	40-80	25-35	5-15

Table 23.--Engineering index properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
					Pct.	Pct.					Pct.	
860: Granath-----	In.											
	0-2	Loam	CL-ML, CL	A-4	0	0	95-100	95-100	90-100	60-75	25-30	5-10
	2-10	Loam	CL, CL-ML	A-4	0	0	95-100	95-100	90-100	60-75	25-30	5-10
	10-15	Clay loam, loam, silty clay loam	CL-ML, CL	A-6, A-4	0	0	100	100	95-100	70-90	25-35	5-15
	15-20	Clay loam, loam, silty clay loam	CL-ML, CL	A-6, A-4	0	0	100	100	95-100	70-90	25-35	5-15
	20-28	Sandy clay loam, clay loam, loam	CL-ML, CL	A-6, A-4	0	0	100	100	85-100	70-90	25-35	5-15
	28-40	Clay loam, loam, silty clay loam	CL, CL-ML	A-6, A-4	0	0	100	100	95-100	70-90	25-35	5-15
	40-49	Clay loam, loam, sandy clay loam	SC, SC-SM, CL-ML, CL	A-6, A-4	0	0	100	100	95-100	40-80	25-35	5-15
	49-60	Sandy clay loam, clay loam, loam	CL-ML, SC, SC-SM, CL	A-6, A-4	0	0	100	100	85-100	40-80	25-35	5-15
Nortez-----	0-3	Loam	CL-ML, CL	A-4	0	0-5	90-100	85-100	75-90	55-70	25-30	5-10
	3-10	Clay loam	CL	A-6	0	0-5	90-100	85-100	80-95	65-75	30-40	10-20
	10-23	Clay loam, clay	CH, CL	A-7	0	0-5	90-100	85-100	80-100	70-90	40-65	25-40
	23-28	Clay loam, clay	CH, CL	A-7	0	0-5	90-100	85-100	80-100	70-90	40-65	25-40
	28-32	Clay loam, clay	CH, CL	A-7	0	0-5	90-100	85-100	80-100	70-90	40-65	25-40
	32-42	Unweathered bedrock			---	---	---	---	---	---	---	---
861: Morapos-----	0-3	Loam	CL-ML, CL	A-4	0	0	85-100	80-100	75-90	55-70	25-30	5-10
	3-8	Clay loam, clay	CL	A-6, A-7	0	0	85-100	80-100	80-95	65-90	30-45	10-20
	8-12	Clay	CL	A-7	0	0	85-100	80-100	80-95	70-90	40-45	15-20
	12-22	Clay	CL	A-7	0	0	85-100	80-100	80-95	70-90	40-45	15-20
	22-37	Clay loam	CL	A-6	0	0	85-100	80-100	80-95	65-75	30-35	10-15
	37-60	Clay loam	CL	A-6	0	0	85-100	80-100	80-95	65-75	30-35	10-15
862: Granath-----	0-2	Loam	CL, CL-ML	A-4	0	0	95-100	95-100	90-100	60-75	25-30	5-10
	2-10	Loam	CL-ML, CL	A-4	0	0	95-100	95-100	90-100	60-75	25-30	5-10
	10-15	Clay loam, loam, silty clay loam	CL, CL-ML	A-6, A-4	0	0	100	100	95-100	70-90	25-35	5-15
	15-20	Clay loam, loam, silty clay loam	CL, CL-ML	A-4, A-6	0	0	100	100	95-100	70-90	25-35	5-15
	20-28	Sandy clay loam, clay loam, loam	CL, CL-ML	A-6, A-4	0	0	100	100	85-100	70-90	25-35	5-15
	28-40	Clay loam, loam, silty clay loam	CL-ML, CL	A-6, A-4	0	0	100	100	95-100	70-90	25-35	5-15
	40-60	Sandy clay loam, clay loam, loam	SC, SC-SM, CL, CL-ML	A-6, A-4	0	0	100	100	85-100	40-80	25-35	5-15

Table 23.--Engineering index properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In.				Pct.	Pct.					Pct.	
862: Dolores-----	0-1	Slightly decomposed plant material	PT		0	0	100	100	---	---	---	---
	1-3	Loam	CL, CL-ML	A-4	0-5	0-10	90-100	85-100	75-95	50-75	25-30	5-10
	3-8	Loam	CL, CL-ML	A-4	0-5	0-10	90-100	85-100	75-95	50-75	25-30	5-10
	8-10	Extremely bouldery clay loam	GC	A-2, A-6	30-65	0-50	25-75	20-70	20-55	15-50	30-40	10-20
	10-15	Very cobbly clay loam, extremely bouldery clay loam, extremely stony clay loam	GC	A-2, A-6	10-65	0-60	25-75	20-70	20-55	15-50	30-40	10-20
	15-24	Extremely bouldery clay loam	GC	A-2, A-6	30-65	0-50	25-75	20-70	20-55	15-50	30-40	10-20
	24-45	Very stony clay loam, very cobbly clay loam, extremely stony clay	CL, CH, GC	A-2, A-6, A-7	25-65	10-60	25-75	20-75	15-65	15-60	30-60	10-35
	45-49	Extremely stony clay	CL, GC, CH	A-2, A-6, A-7	30-65	10-50	25-75	20-75	15-65	15-60	30-60	10-35
	49-61	Extremely stony clay, extremely stony clay loam	GC-GM, CL, GC	A-7, A-6, A-2	35-65	15-50	25-70	20-65	15-60	10-55	30-45	10-20
Fivepine-----	0-3	Flaggy loam	CL, CL-ML	A-4	10-30	10-20	85-95	80-90	75-85	55-70	25-30	5-10
	3-9	Flaggy clay loam	CL	A-6	10-30	10-20	85-95	80-90	80-90	65-75	30-40	10-20
	9-12	Flaggy clay loam, flaggy clay	CL	A-7, A-6	10-30	10-20	85-95	80-90	80-90	65-80	30-45	15-25
	12-15	Flaggy clay	CL	A-7	10-30	10-20	85-95	80-90	80-90	70-90	40-50	20-30
	15-19	Unweathered bedrock			---	---	---	---	---	---	---	---
863: Granath-----	0-2	Loam	CL, CL-ML	A-4	0	0	95-100	95-100	90-100	60-75	25-30	5-10
	2-10	Loam	CL, CL-ML	A-4	0	0	95-100	95-100	90-100	60-75	25-30	5-10
	10-15	Clay loam, loam, silty clay loam	CL, CL-ML	A-6, A-4	0	0	100	100	95-100	70-90	25-35	5-15
	15-20	Clay loam, loam, silty clay loam	CL, CL-ML	A-6, A-4	0	0	100	100	95-100	70-90	25-35	5-15
	20-28	Sandy clay loam, clay loam, loam	CL-ML, CL	A-6, A-4	0	0	100	100	85-100	70-90	25-35	5-15
	28-40	Clay loam, loam, silty clay loam	CL-ML, CL	A-6, A-4	0	0	100	100	95-100	70-90	25-35	5-15
	40-60	Sandy clay loam, clay loam, loam	CL, SC-SM, SC, CL-ML	A-6, A-4	0	0	100	100	85-100	40-80	25-35	5-15
Ormiston-----	0-7	Loam	CL-ML, CL	A-4	0-5	0-10	90-100	85-100	75-95	50-75	25-30	5-10
	7-24	Very stony clay loam, very stony clay, extremely stony clay loam	GC, CL, CH	A-2, A-6, A-7	25-50	20-50	50-85	40-80	40-75	30-65	30-65	10-40
	24-32	Stony clay loam, very stony clay	CH, CL, GC	A-2, A-6, A-7	10-50	10-40	50-85	40-80	40-75	30-65	30-65	10-40
	32-44	Stony clay loam	CL	A-6	10-45	15-30	75-90	70-85	65-85	50-70	30-40	10-20
	44-54	Unweathered bedrock			---	---	---	---	---	---	---	---

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In.				Pct.	Pct.					Pct.	
863: Fivepine-----	0-3	Flaggy loam	CL, CL-ML	A-4	10-30	10-20	85-95	80-90	75-85	55-70	25-30	5-10
	3-9	Flaggy clay loam	CL	A-6	10-30	10-20	85-95	80-90	80-90	65-75	30-40	10-20
	9-12	Flaggy clay loam, flaggy clay	CL	A-6, A-7	10-30	10-20	85-95	80-90	80-90	65-80	30-45	15-25
	12-15	Flaggy clay	CL	A-7	10-30	10-20	85-95	80-90	80-90	70-90	40-50	20-30
	15-25	Unweathered bedrock			---	---	---	---	---	---	---	---
890: Tamarron-----	0-3	Slightly decomposed plant material	PT		0	0	100	100	---	---	---	---
	3-9	Loam	CL, CL-ML	A-4	0	0	95-100	90-100	75-95	55-75	25-30	5-10
	9-20	Very channery clay loam, very flaggy sandy clay loam, very flaggy loam	GC-GM, GC, SC	A-2, A-4, A-6	5-45	10-45	50-75	40-65	35-50	25-40	25-35	5-15
	20-30	Very channery clay loam, very flaggy sandy clay loam, very flaggy loam	GC, SC, GC-GM	A-2, A-4, A-6	5-45	10-45	50-75	40-65	35-50	25-40	25-35	5-15
	30-39	Very channery loam, extremely flaggy loam	GC-GM, GC	A-2	15-45	30-70	40-60	35-50	25-40	25-35	25-35	5-10
	39-49	Weathered bedrock			---	---	---	---	---	---	---	---
Frisco-----	0-2	Slightly decomposed plant material	PT		0	0	100	100	---	---	---	---
	2-5	Loam	CL, CL-ML	A-4	0-5	0-10	85-100	80-100	70-90	55-70	25-30	5-10
	5-11	Loam	CL-ML, CL	A-4	0-5	0-10	85-100	80-100	70-90	55-70	25-30	5-10
	11-19	Cobbly loam, stony loam	CL-ML, SC-SM, SC, CL	A-4	10-20	10-25	75-90	70-90	60-80	45-65	25-30	5-10
	19-48	Extremely stony sandy clay loam, very cobbly clay loam	GC, GC-GM, SC, SC-SM	A-1, A-2, A-4, A-6	25-65	20-50	35-80	25-70	20-55	15-50	25-35	5-15
	48-62	Extremely stony loam	GC, SC-SM, SC, GC-GM	A-1, A-2, A-4	30-65	15-40	35-80	25-70	20-55	15-50	25-30	5-10
891: Tamarron-----	0-3	Slightly decomposed plant material	PT		0	0	100	100	---	---	---	---
	3-9	Loam	CL, CL-ML	A-4	0	0	95-100	90-100	75-95	55-75	25-30	5-10
	9-20	Very channery clay loam, very flaggy sandy clay loam, very flaggy loam	SC, GC-GM, GC	A-2, A-4, A-6	5-45	10-45	50-75	40-65	35-50	25-40	25-35	5-15
	20-30	Very channery clay loam, very flaggy sandy clay loam, very flaggy loam	SC, GC, GC-GM	A-2, A-4, A-6	5-45	10-45	50-75	40-65	35-50	25-40	25-35	5-15
	30-39	Very channery loam, extremely flaggy loam	GC-GM, GC	A-2	15-45	30-70	40-60	35-50	25-40	25-35	25-35	5-10
	39-49	Weathered bedrock			---	---	---	---	---	---	---	---

Table 23.--Engineering index properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In.				Pct.	Pct.					Pct.	
891: Frisco-----	0-2	Slightly decomposed plant material	PT		0	0	100	100	---	---	---	---
	2-5	Loam	CL, CL-ML	A-4	0-5	0-10	85-100	80-100	70-90	55-70	25-30	5-10
	5-11	Loam	CL, CL-ML	A-4	0-5	0-10	85-100	80-100	70-90	55-70	25-30	5-10
	11-19	Cobbly loam, stony loam	SC-SM, SC, CL-ML, CL	A-4	10-20	10-25	75-90	70-90	60-80	45-65	25-30	5-10
	19-48	Extremely stony sandy clay loam, very cobbly clay loam	GC, GC-GM, SC-SM, SC	A-1, A-2, A- 4, A-6	25-65	20-50	35-80	25-70	20-55	15-50	25-35	5-15
	48-62	Extremely stony loam	GC, GC-GM, SC, SC-SM	A-1, A-2, A-4	30-65	15-40	35-80	25-70	20-55	15-50	25-30	5-10
901: Granath-----	0-2	Loam	CL-ML, CL	A-4	0	0	95-100	95-100	90-100	60-75	25-30	5-10
	2-10	Loam	CL-ML, CL	A-4	0	0	95-100	95-100	90-100	60-75	25-30	5-10
	10-15	Clay loam, loam, silty clay loam	CL, CL-ML	A-6, A-4	0	0	100	100	95-100	70-90	25-35	5-15
	15-20	Clay loam, loam, silty clay loam	CL, CL-ML	A-6, A-4	0	0	100	100	95-100	70-90	25-35	5-15
	20-28	Sandy clay loam, clay loam, loam	CL-ML, CL	A-6, A-4	0	0	100	100	85-100	70-90	25-35	5-15
	28-40	Clay loam, loam, silty clay loam	CL-ML, CL	A-6, A-4	0	0	100	100	95-100	70-90	25-35	5-15
	40-60	Sandy clay loam, clay loam, loam	CL, SC-SM, SC, CL-ML	A-6, A-4	0	0	100	100	85-100	40-80	25-35	5-15
Zoltay-----	0-6	Clay loam	CL	A-6	0	0	95-100	95-100	75-85	60-80	30-35	10-15
	6-14	Clay loam	CL	A-6	0	0	95-100	95-100	75-85	60-80	30-35	10-15
	14-23	Clay, gravelly clay, cobbly clay, cobbly clay loam	CL	A-6, A-7	0-15	0-30	75-95	70-90	55-80	50-75	35-45	15-20
	23-29	Clay, gravelly clay, cobbly clay, cobbly clay loam	CL	A-6, A-7	0-10	0-30	75-95	70-90	55-80	50-75	35-45	15-20
	29-46	Clay, cobbly clay loam, clay loam, very cobbly clay loam	CL	A-7, A-6	0-15	0-55	70-95	65-90	55-80	50-75	30-45	10-20
	46-60	Clay, cobbly clay loam, clay loam	CL	A-7, A-6	0-15	0-45	70-95	65-90	55-80	50-75	30-45	10-20
Nortez-----	0-3	Loam	CL-ML, CL	A-4	0	0-5	90-100	85-100	75-90	55-70	25-30	5-10
	3-10	Clay loam	CL	A-6	0	0-5	90-100	85-100	80-95	65-75	30-40	10-20
	10-32	Clay loam, clay	CL, CH	A-7	0	0-5	90-100	85-100	80-100	70-90	40-65	25-40
	32-42	Unweathered bedrock			---	---	---	---	---	---	---	---
903: Anvik-----	0-1	Slightly decomposed plant material	PT		0	0	100	100	---	---	---	---
	1-7	Loam	CL, CL-ML	A-4	0	0	90-100	85-100	70-95	50-70	25-30	5-10
	7-11	Loam	CL-ML, CL	A-4	0	0	90-100	85-100	70-95	50-70	25-30	5-10
	11-22	Sandy loam, loam	SC-SM, CL, CL-ML, SC	A-2, A-4	0	0	90-100	85-95	60-90	30-60	25-30	5-10
	22-31	Clay loam, cobbly loam, sandy clay loam	CL, SC, CL- ML, SC-SM	A-4, A-6	0-5	0-30	90-100	75-100	70-90	40-75	25-35	5-15
	31-45	Clay loam, cobbly loam, sandy clay loam	CL-ML, CL, SC-SM, SC	A-4, A-6	0-5	0-30	90-100	75-100	70-90	40-75	25-35	5-15
	45-61	Loam, cobbly clay loam, sandy clay loam	CL, SC	A-4, A-6	0-5	5-30	75-100	75-95	55-85	40-70	25-35	5-15

Table 23.--Engineering index properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
					Pct.	Pct.						
	In.											
904: Beje-----	0-6	Fine sandy loam	SC, SC-SM	A-4	0	0-5	95-100	90-100	60-85	35-50	25-30	5-10
	6-14	Clay loam, sandy clay loam, loam	CL, CL-ML	A-4, A-6	0	0-5	90-100	80-100	80-90	50-80	25-35	5-15
	14-18	Unweathered bedrock			---	---	---	---	---	---	---	---
905: Cryaquolls-----	0-7	Loam	CL, CL-ML	A-4	0	0	100	100	85-95	60-75	25-30	5-10
	7-12	Loam	CL, CL-ML	A-4	0	0	100	100	85-95	60-75	25-30	5-10
	12-60	Stratified extremely gravelly loam to extremely gravelly sandy loam, stratified gravelly loam to clay loam, loam, clay loam	GC-GM, GC, CL, CL-ML, SC-SM	A-1, A-2, A-4	0-10	0-40	25-100	20-100	15-85	15-70	25-30	5-10
906: Archuleta-----	0-3	Loam	CL-ML, CL	A-4	0	0-10	85-100	80-100	70-95	50-75	25-30	5-10
	3-16	Clay loam, loam, gravelly clay loam	SC-SM, CL-ML, CL	A-4, A-6	0	0-15	70-100	55-100	50-75	35-65	25-35	5-15
	16-26	Unweathered bedrock			---	---	---	---	---	---	---	---
907: Archuleta-----	0-3	Loam	CL-ML, CL	A-4	0	0-10	85-100	80-100	70-95	50-75	25-30	5-10
	3-16	Clay loam, loam, gravelly clay loam	CL, CL-ML, SC-SM	A-4, A-6	0	0-15	70-100	55-100	50-75	35-65	25-35	5-15
	16-26	Unweathered bedrock			---	---	---	---	---	---	---	---
Sanchez-----	0-5	Very stony sandy clay loam	SC-SM, GC-GM	A-2	25-50	10-20	45-75	40-70	30-50	15-35	25-30	5-10
	5-11	Very stony sandy clay loam, very stony clay loam	GC, CL, SC	A-2, A-6	25-60	10-50	50-80	45-75	40-65	20-55	25-35	10-15
	11-15	Stony sandy clay loam	SC	A-2, A-6	10-45	10-25	75-85	70-80	50-70	30-45	30-35	10-15
	15-19	Unweathered bedrock			---	---	---	---	---	---	---	---
908: Adel-----	0-14	Loam	CL, CL-ML	A-4	0	0-5	85-100	80-95	70-95	55-75	25-30	5-10
	14-24	Loam	CL, CL-ML	A-4	0	0-5	85-100	80-95	70-95	50-75	25-30	5-10
	24-36	Loam, clay loam	A-4	A-4	0	0-5	85-100	75-95	70-90	50-80	25-30	5-10
	36-60	Clay loam, gravelly clay loam, gravelly loam	CL, CL-ML, SC-SM	A-4, A-6	0	0-5	65-100	60-95	55-90	45-75	25-35	5-15
909: Adel-----	0-14	Loam	CL, CL-ML	A-4	0	0-5	85-100	80-95	70-95	55-75	25-30	5-10
	14-24	Loam	CL, CL-ML	A-4	0	0-5	85-100	80-95	70-95	50-75	25-30	5-10
	24-36	Loam, clay loam	CL, CL-ML	A-4	0	0-5	85-100	75-95	70-90	50-80	25-30	5-10
	36-60	Clay loam, gravelly clay loam, gravelly loam	CL, CL-ML, SC-SM	A-4, A-6	0	0-5	65-100	60-95	55-90	45-75	25-35	5-15

Table 23.--Engineering index properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In.				Pct.	Pct.					Pct.	
917: Chris-----	0-1	Slightly decomposed plant material	PT		0	0	100	100	---	---	---	---
	1-13	Very stony loam	CL-ML, GC-GM	A-4	25-60	15-30	45-90	40-85	35-80	25-65	25-30	5-10
	13-23	Gravelly sandy clay loam, gravelly clay loam, gravelly loam	CL, CL-ML, GC, SC	A-4, A-6	0-10	5-15	60-80	55-75	50-75	35-60	25-35	5-15
	23-31	Very cobbly loam, very gravelly sandy clay loam, very cobbly clay loam	SC-SM, SC, GC	A-6, A-4, A-2	0-15	20-50	35-80	30-70	25-60	20-45	25-35	5-15
	31-42	Very cobbly sandy clay loam, very cobbly clay loam, very gravelly clay, very cobbly clay	CL, GC	A-6, A-2, A-7	0-15	10-50	35-80	30-70	30-65	20-60	35-50	15-25
	42-61	Very cobbly sandy clay loam, very gravelly sandy clay loam, very cobbly clay loam	GC, SC, SC-SM	A-6, A-4, A-2	0-15	20-50	35-80	30-70	25-60	20-45	25-35	5-15
919: Clayburn-----	0-6	Loam	CL, CL-ML	A-4	0	0-5	90-100	80-95	70-90	60-75	25-30	5-10
	6-10	Loam	CL, CL-ML	A-4	0	0-5	90-100	80-95	70-90	60-75	25-30	5-10
	10-16	Loam, clay loam, sandy clay loam	CL, SC, CL-ML, SC-SM	A-4, A-6	0-10	0-10	90-100	80-100	70-90	45-75	25-35	5-15
	16-31	Loam, clay loam, sandy clay loam	CL, SC, CL-ML, SC-SM	A-4, A-6	0-10	0-10	90-100	80-100	70-90	45-75	25-35	5-15
	31-60	Clay loam, sandy clay loam, loam	CL, SC, CL-ML, SC-SM	A-2, A-6, A-4	0-5	0-5	85-95	80-90	60-75	30-60	25-35	5-15
920: Clayburn-----	0-18	Cobbly loam	CL, CL-ML	A-4	0-10	20-40	90-100	80-95	70-90	60-75	25-30	5-10
	18-43	Loam, clay loam, sandy clay loam	SC-SM, CL-ML, SC, CL	A-4, A-6	0-10	0-10	90-100	80-100	70-90	45-75	25-35	5-15
	43-60	Clay loam, sandy clay loam, loam	CL, SC, CL-ML, SC-SM	A-2, A-6, A-4	0-5	0-5	85-95	80-90	60-75	30-60	25-35	5-15
926: Ustolls-----	0-11	Stony loam	CL-ML, CL	A-4	10-40	10-30	75-90	70-85	60-80	50-65	25-30	5-10
	11-18	Stony loam	CL, CL-ML	A-4	10-40	10-30	75-90	70-85	60-80	50-65	25-30	5-10
	18-30	Very cobbly clay loam, very cobbly clay	CL, GC	A-7, A-6	10-20	30-55	60-85	50-75	40-70	35-65	35-45	15-20
	30-42	Very cobbly clay loam, very cobbly clay	CL, GC	A-6, A-7	10-20	30-55	60-85	50-75	40-70	35-65	35-45	15-20
	42-60	Very stony clay	CL, GC	A-7	25-60	10-45	60-80	55-75	50-70	40-70	40-50	15-25
Rock outcrop----	0-60	Unweathered bedrock			---	---	---	---	---	---	---	---

Table 23.--Engineering index properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In.				Pct.	Pct.					Pct.	
930: Fortlewis-----	0-1	Slightly decomposed plant material	PT		0	0	100	100	---	---	---	---
	1-4	Stony fine sandy loam	SC, SC-SM	A-2, A-4	15-45	5-20	75-90	70-85	50-70	30-50	25-30	5-10
	4-12	Stony fine sandy loam	SC, SC-SM	A-2, A-4	15-45	5-20	75-90	70-85	50-70	30-50	25-30	5-10
	12-17	Clay loam, sandy clay loam, stony clay loam, fine sandy loam, stony fine sandy loam	CL, SC, CL- ML, SC-SM	A-6, A-4, A-2	0-20	0-20	90-95	85-90	55-85	30-75	25-40	5-15
	17-27	Clay, clay loam, sandy clay, stony clay	CL, SC	A-7, A-6	0-20	0-20	90-95	85-90	55-85	45-80	35-45	15-20
	27-39	Clay, clay loam, sandy clay, stony clay loam	SC, CL	A-6, A-7	0-20	0-20	90-95	85-90	55-85	45-80	35-45	15-20
	39-43	Unweathered bedrock			---	---	---	---	---	---	---	---
Rock outcrop----	0-60	Unweathered bedrock			---	---	---	---	---	---	---	---
934: Ceek-----	0-1	Slightly decomposed plant material	PT		0	0	100	100	---	---	---	---
	1-6	Very flaggy clay loam	CL, GC, SC	A-6	25-50	10-50	45-90	40-85	35-85	35-70	30-35	10-15
	6-14	Very cobbly clay loam	CL, GC, SC	A-6	0-5	30-60	60-90	55-85	50-80	40-70	35-40	10-15
	14-23	Very cobbly clay, very cobbly clay loam	CL, GC	A-7, A-6	0-5	30-60	60-90	55-85	50-80	40-70	35-50	15-25
	23-32	Clay	CL	A-7	0	5-15	90-95	85-95	70-85	60-80	40-50	20-25
	32-61	Clay	CL	A-7	0	0-15	90-95	85-95	70-85	60-80	40-50	20-25
937: Herm-----	0-6	Loam	CL, CL-ML	A-4	0	0-5	95-100	90-100	75-95	50-75	25-30	5-10
	6-13	Clay loam	CL	A-6	0	0-5	95-100	90-100	80-100	65-90	30-40	10-20
	13-17	Clay loam, clay	CL	A-6, A-7	0	0-5	95-100	90-100	80-100	65-95	35-50	15-25
	17-45	Clay loam, clay	CL	A-6, A-7	0	0-5	95-100	90-100	80-100	65-95	35-50	15-25
	45-60	Clay loam	CL	A-6	0-5	0-10	95-100	90-100	80-100	65-80	30-40	10-20
939: Ohwiler-----	0-14	Loam	CL, CL-ML	A-4	0	0-5	90-100	80-100	80-95	65-85	25-30	5-10
	14-45	Clay loam, loam, sandy clay loam	CL, CL-ML	A-4, A-6	0	0-5	85-100	80-100	70-95	60-85	25-35	5-15
	45-55	Loam, clay loam, sandy clay loam	CL-ML, CL	A-4, A-6	0	0-10	85-100	80-100	70-90	50-75	25-35	5-15
	55-60	Loam, clay loam	CL, CL-ML	A-4, A-6	0	0-10	85-100	80-100	70-90	50-75	25-35	5-15

Table 23.--Engineering index properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In.				Pct.	Pct.					Pct.	
940: Horsethief-----	0-2	Slightly decomposed plant material	PT		0	0	100	100	---	---	---	---
	2-5	Stony fine sandy loam	SC, SC-SM	A-2, A-4	10-40	0-25	80-95	75-90	60-80	30-45	25-30	5-10
	5-24	Stony fine sandy loam, very stony fine sandy loam, extremely stony sandy loam	SC, SC-SM	A-2, A-4	10-60	0-50	80-95	75-90	60-80	25-45	25-30	5-10
	24-32	Extremely stony sandy clay loam, extremely stony fine sandy loam	CL, SC-SM, CL-ML, SC	A-6, A-4	25-60	10-55	85-95	80-90	65-80	35-55	25-35	5-15
	32-49	Extremely cobbly loam, very stony sandy clay loam, extremely stony clay loam	GC, SC, SC-SM, CL-ML, CL	A-4, A-6	25-60	10-55	65-95	60-90	50-85	40-70	25-35	5-15
	49-62	Extremely cobbly loam, very stony clay loam, extremely stony clay loam, very stony sandy clay loam	SC-SM, CL-ML, SC, CL, GC	A-4, A-6	25-60	10-55	65-95	60-90	50-85	40-70	25-35	5-15
942: Fivepine-----	0-3	Loam	CL, CL-ML	A-4	0	0-15	85-100	80-100	65-90	50-75	25-30	5-10
	3-9	Flaggy clay loam	CL	A-6	10-30	10-20	85-95	80-90	80-90	65-75	30-40	10-20
	9-12	Flaggy clay, flaggy clay loam	CL	A-7, A-6	10-30	10-20	85-95	80-90	80-90	65-80	30-45	15-25
	12-15	Flaggy clay	CL	A-7	10-30	10-20	85-95	80-90	80-90	70-90	40-50	20-30
	15-19	Unweathered bedrock			---	---	---	---	---	---	---	---
Pino-----	0-1	Slightly decomposed plant material	PT		0	0	100	100	---	---	---	---
	1-4	Loam	CL-ML, CL	A-4	0	0-5	95-100	80-100	80-90	55-70	25-30	5-10
	4-12	Loam	CL-ML, CL	A-4	0	0	95-100	80-100	80-90	55-70	25-30	5-10
	12-15	Clay loam, silty clay loam	CL	A-6	0-5	0-5	95-100	80-100	80-95	75-85	35-40	15-20
	15-21	Clay loam, silty clay loam	CL	A-6	0-5	0-5	95-100	80-100	80-95	75-85	35-40	15-20
	21-29	Clay, silty clay, clay loam	CH, CL	A-6, A-7	0-5	0-5	85-100	80-100	70-85	55-80	35-60	15-35
	29-34	Clay, silty clay, clay loam	CH, CL	A-6, A-7	0-5	0-5	85-100	80-100	70-85	55-80	35-60	15-35
	34-38	Unweathered bedrock			---	---	---	---	---	---	---	---
945: Nizhoni-----	0-4	Sandy loam	CL, CL-ML, SC, SC-SM	A-2, A-4	0-5	0-10	85-100	80-100	50-85	30-55	25-30	5-10
	4-8	Sandy loam	CL, CL-ML, SC, SC-SM	A-2, A-4	0-5	0-10	85-100	80-100	50-85	30-55	25-30	5-10
	8-12	Unweathered bedrock			---	---	---	---	---	---	---	---
Arabrab-----	0-3	Fine sandy loam	SC-SM	A-4	0	0	100	90-100	70-85	40-50	25-30	5-10
	3-16	Sandy clay loam, clay loam	CL-ML, SC-SM, CL, SC	A-4, A-6	0	0-15	85-100	75-100	70-90	40-70	25-35	5-15
	16-20	Unweathered bedrock			---	---	---	---	---	---	---	---

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In.				Pct.	Pct.					Pct.	
945: Rock outcrop----	0-60	Unweathered bedrock			---	---	---	---	---	---	---	---
950: Pescar-----	0-8 8-20	Fine sandy loam Stratified loamy fine sand to loam	SC-SM, SM ML, SC-SM, SM	A-4 A-2, A-4	0 0	0-5 0-5	85-100 90-100	80-100 85-100	55-85 50-95	35-50 25-75	20-25 20-25	NP-5 NP-5
	20-60	Very gravelly sand, very gravelly loamy sand, extremely gravelly sand	GM, GP, GP-GM	A-1	0	0-5	25-55	15-50	10-30	0-15	0-0	NP
951: Endoaquolls----	0-4 4-12	Loam Sandy loam, fine sandy loam, loam	CL, CL-ML SC, SC-SM, CL-ML	A-4 A-2, A-4	0-5 0	0-5 0	90-100 90-100	85-100 85-100	75-90 55-75	55-70 30-70	25-30 25-30	5-10 5-10
	12-14	Sandy loam, fine sandy loam, loam	CL-ML, SC, SC-SM	A-2, A-4	0	0	90-100	85-100	55-75	30-70	25-30	5-10
	14-19	Sandy loam, fine sandy loam, loam	SC-SM, SC, CL-ML	A-2, A-4	0	0	90-100	85-100	55-75	30-70	25-30	5-10
	19-28	Sandy loam, fine sandy loam, loam	SC-SM, CL-ML, SC	A-2, A-4	0	0	90-100	85-100	55-75	30-70	25-30	5-10
	28-60	Extremely cobbley loamy sand, extremely cobbley sand	SW, GW, GP- GM, SP, GP, SP-SM	A-1	0-20	30-70	20-80	20-70	10-55	0-20	20-25	NP-5
955: Umbarg-----	0-2 2-12 12-33 33-42 42-60	Loam Clay loam Loam Loam Very gravelly loam	CL, CL-ML CL CL-ML, CL CL, CL-ML GC-GM, GC	A-4 A-6 A-4 A-4 A-2	0 0 0 0 0-10	0-5 0-5 0-5 0-5 5-35	90-100 90-100 90-100 90-100 40-55	85-100 85-100 85-100 85-100 35-50	75-90 80-95 75-90 75-90 30-45	60-70 65-75 60-70 60-70 25-35	25-30 30-35 25-30 25-30 25-30	5-10 10-15 5-10 5-10 5-10
Winner-----	0-4 4-14 14-23 23-31 31-60	Clay loam Clay loam Clay loam Clay loam Very stony sandy clay loam	CL CL CL CL SC-SM, SC, GC-GM, GC	A-6 A-6 A-6 A-6 A-1, A-2	0-5 0-5 0-5 0-5 30-65	0-5 0-5 0-5 0-5 5-40	90-100 90-100 90-100 90-100 50-80	85-100 85-100 85-100 85-100 45-75	80-95 80-95 80-95 80-95 40-65	65-75 65-75 65-75 65-75 20-35	30-35 30-35 30-35 30-35 25-30	10-15 10-15 10-15 10-15 5-10
Tesajo-----	0-3 3-36 36-60	Gravelly sandy loam Stratified extremely cobbley loamy sand to very cobbley sandy loam Extremely cobbley sandy loam	GC-GM, SC-SM SC, GC GC, SC-SM, SC, GC-GM	A-1 A-1 A-1	0-5 5-20 5-20	5-10 35-80 40-80	60-65 45-90 30-80	55-60 40-80 20-75	35-45 25-65 10-50	20-30 5-35 5-30	25-30 25-30 25-30	5-30 5-10 5-10
956: Ormiston-----	0-2 2-7 7-24 24-32 32-44 44-48	Extremely stony loam Very stony clay loam Very stony clay loam, very stony clay, extremely stony clay loam Stony clay loam, very stony clay Stony clay loam Unweathered bedrock	SC, GC, GC- GM, SC-SM SC, GC, CL GC, CH, CL CL, GC, CH CL	A-1, A-2, A-4 A-2, A-6 A-2, A-6, A-7 A-2, A-6, A-7 A-6	30-60 25-50 25-50 10-50 10-45 ---	20-60 20-50 20-50 10-40 15-30 ---	50-80 50-85 50-85 50-85 75-90 ---	25-75 40-80 40-80 40-80 70-85 ---	20-70 35-70 40-75 30-65 65-85 ---	15-50 30-60 30-65 30-65 50-70 ---	25-30 30-35 30-65 30-65 30-40 ---	5-10 10-15 10-40 10-40 10-20 ---

Table 23.--Engineering index properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
					Pct.	Pct.						
956: Granath-----	In.											
	0-2	Loam	CL, CL-ML	A-4	0	0	95-100	95-100	90-100	60-75	25-30	5-10
	2-10	Loam	CL-ML, CL	A-4	0	0	95-100	95-100	90-100	60-75	25-30	5-10
	10-15	Clay loam, loam, silty clay loam	CL, CL-ML	A-6, A-4	0	0	100	100	95-100	70-90	25-35	5-15
	15-20	Clay loam, loam, silty clay loam	CL, CL-ML	A-6, A-4	0	0	100	100	95-100	70-90	25-35	5-15
	20-28	Sandy clay loam, clay loam, loam	CL, CL-ML	A-6, A-4	0	0	100	100	85-100	70-90	25-35	5-15
	28-40	Clay loam, loam, silty clay loam	CL-ML, CL	A-6, A-4	0	0	100	100	95-100	70-90	25-35	5-15
	40-60	Sandy clay loam, clay loam, loam	CL, CL-ML, SC-SM, SC	A-6, A-4	0	0	100	100	85-100	40-80	25-35	5-15
958: Sheek-----	0-1	Moderately decomposed plant material	PT		0	0	100	100	---	---	---	---
	1-5	Very stony sandy loam	SC, GC, GC- GM, SC-SM	A-1, A-2	25-70	10-50	45-85	40-80	25-60	15-35	25-30	5-10
	5-43	Very stony clay loam, very stony sandy clay loam, very cobbly loam	CL, GC, SC	A-6, A-2	25-70	10-70	45-85	40-80	35-75	30-70	25-35	5-15
	43-61	Very stony clay loam, very cobbly loam	CL, GC, SC	A-2, A-6	25-70	10-70	45-85	40-80	35-75	30-70	25-35	5-15
Archuleta-----	0-1	Slightly decomposed plant material	PT		0	0	100	100	---	---	---	---
	1-6	Very stony sandy loam	SC, SC-SM, GC, GC-GM	A-1, A-2	25-70	5-50	45-90	40-85	25-60	15-35	25-30	5-10
	6-9	Stony sandy loam	SC-SM, SC	A-2	10-40	5-20	75-90	70-85	45-60	15-35	25-30	5-10
	9-18	Stony sandy clay loam, stony clay loam	SC-SM, CL-ML, CL	A-6, A-4	10-40	5-20	75-90	70-85	65-85	50-70	25-35	5-15
	18-28	Weathered bedrock			---	---	---	---	---	---	---	---
Rock outcrop----	0-60	Unweathered bedrock			---	---	---	---	---	---	---	
959: Granath-----	0-2	Loam	CL, CL-ML	A-4	0	0	95-100	95-100	90-100	60-75	25-30	5-10
	2-10	Loam	CL-ML, CL	A-4	0	0	95-100	95-100	90-100	60-75	25-30	5-10
	10-15	Clay loam, loam, silty clay loam	CL-ML, CL	A-6, A-4	0	0	100	100	95-100	70-90	25-35	5-15
	15-20	Clay loam, loam, silty clay loam	CL, CL-ML	A-6, A-4	0	0	100	100	95-100	70-90	25-35	5-15
	20-28	Sandy clay loam, clay loam, loam	CL, CL-ML	A-6, A-4	0	0	100	100	85-100	70-90	25-35	5-15
	28-40	Clay loam, loam, silty clay loam	CL, CL-ML	A-6, A-4	0	0	100	100	95-100	70-90	25-35	5-15
	40-60	Sandy clay loam, clay loam, loam	SC, CL-ML, SC-SM, CL	A-6, A-4	0	0	100	100	85-100	40-80	25-35	5-15
	965: Narraguinnep----	0-6	Clay loam	CL	A-6	0	0	90-100	80-100	75-95	60-80	30-40	10-20
6-17		Clay, clay loam	CL	A-7, A-6	0	0	90-100	80-100	75-95	60-90	35-50	15-25
17-23		Clay, clay loam	CL	A-6, A-7	0	0	90-100	80-100	75-95	60-90	35-50	15-25
23-30		Silty clay loam, clay loam, clay	CL	A-7, A-6	0	0-5	90-100	80-100	75-95	60-90	30-50	10-25
30-60		Silty clay loam, clay loam, clay	CL	A-7, A-6	0	0	90-100	80-100	75-95	60-90	30-50	10-25

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index	
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200			
	In.				Pct.	Pct.					Pct.		
965: Dapoin-----	0-4	Clay loam	CL	A-6	0	0	95-100	90-100	70-85	60-80	30-35	10-15	
	4-13	Clay loam	CL	A-6	0	0	95-100	90-100	70-85	60-80	30-35	10-15	
	13-18	Clay	CL	A-7	0	0	95-100	90-100	75-90	65-85	40-45	20-25	
	18-29	Clay loam, clay, channery clay loam, channery clay	CL	A-6, A-7	0	0	80-100	60-100	55-90	50-90	30-50	10-25	
	29-32	Clay loam, clay, channery clay loam, channery clay	CL	A-6, A-7	0	0	70-100	60-100	55-90	50-90	30-50	10-25	
	32-38	Clay loam, clay, channery clay loam, channery clay	CL	A-6, A-7	0	0	70-100	60-100	55-90	50-90	30-50	10-25	
	38-44	Clay loam	CL	A-6	0	0	85-100	80-100	75-85	60-80	30-40	10-20	
	44-60	Clay loam	CL	A-6	0	0	85-100	80-100	75-85	60-80	30-40	10-20	
	966: Cryaquepts-----	0-8	Loam	CL-ML, CL	A-4	0	0-5	90-100	90-100	75-95	55-75	25-30	5-10
		8-15	Cobbly loam	CL-ML, CL, SC, SC-SM	A-4	0	15-25	80-95	75-90	65-85	45-70	25-30	5-10
15-28		Extremely cobbly loam	GC, GC-GM	A-2, A-4	0	55-65	45-65	40-55	35-50	25-40	25-30	5-10	
28-32		Unweathered bedrock			---	---	---	---	---	---	---	---	
967: Quazar-----		0-12	Very cobbly loam	CL, GC, SC, SC-SM	A-2, A-4	0-25	20-60	45-90	40-85	35-80	25-65	25-30	5-10
	12-26	Very gravelly clay loam, extremely gravelly clay loam, very gravelly sandy clay loam, extremely cobbly clay loam, extremely cobbly sandy clay loam	SC, GC, GC- GM, SC-SM, CL, CL-ML	A-4, A-2, A-6	0-20	15-65	30-75	25-70	15-65	10-60	25-35	5-15	
	26-60	Extremely gravelly clay loam	GC-GM, GC	A-2	0-20	15-35	15-30	10-25	10-25	5-20	30-35	10-15	
	Cryaquolls-----	0-7	Loam	CL-ML, CL	A-4	0	0	100	100	85-95	60-75	25-30	5-10
7-12		Loam	CL-ML, CL	A-4	0	0-10	90-100	85-100	85-95	60-75	25-30	5-10	
12-60		Stratified extremely gravelly loam to extremely gravelly sandy loam, stratified gravelly loam to clay loam, loam, clay loam	GC-GM, GC, CL, CL-ML, SC-SM	A-1, A-2, A-4	0-10	0-40	25-100	20-100	15-85	15-70	25-30	5-10	
Cryochemists-----		0-14	Mucky peat	PT	A-8	0	0	100	100	---	---	---	NP
	14-26	Mucky peat	PT	A-8	0	0	100	100	---	---	---	NP	
	26-38	Mucky peat	PT	A-8	0	0	100	100	---	---	---	NP	
	38-45	Gravelly loam, loam	CL, CL-ML, GC-GM, GC	A-4	0	0-5	70-100	65-95	60-90	45-80	25-30	5-10	
	45-60	Gravelly loam, loam	CL, GC, GC- GM, CL-ML	A-4	0	0-5	70-100	65-95	60-90	45-80	25-30	5-10	
968: Nortez-----	0-3	Loam	CL, CL-ML	A-4	0	0-5	90-100	85-100	75-90	55-70	25-30	5-10	
	3-10	Clay loam	CL	A-6	0	0-5	90-100	85-100	80-95	65-75	30-40	10-20	
	10-32	Clay loam, clay	CH, CL	A-7	0	0-5	90-100	85-100	80-100	70-90	40-65	25-40	
	32-42	Unweathered bedrock			---	---	---	---	---	---	---	---	

Table 23.--Engineering index properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
					Pct.	Pct.						
	In.											
968: Granath-----	0-2	Loam	CL-ML, CL	A-4	0	0	95-100	95-100	90-100	60-75	25-30	5-10
	2-10	Loam	CL, CL-ML	A-4	0	0	95-100	95-100	90-100	60-75	25-30	5-10
	10-15	Clay loam, loam, silty clay loam	CL, CL-ML	A-6, A-4	0	0	100	100	95-100	70-90	25-35	5-15
	15-20	Clay loam, loam, silty clay loam	CL, CL-ML	A-6, A-4	0	0	100	100	95-100	70-90	25-35	5-15
	20-28	Sandy clay loam, clay loam, loam	CL-ML, CL	A-6, A-4	0	0	100	100	85-100	70-90	25-35	5-15
	28-40	Clay loam, loam, silty clay loam	CL, CL-ML	A-6, A-4	0	0	100	100	95-100	70-90	25-35	5-15
	40-60	Sandy clay loam, clay loam, loam	CL-ML, SC, SC-SM, CL	A-6, A-4	0	0	100	100	85-100	40-80	25-35	5-15
969: Nortez-----	0-3	Loam	CL, CL-ML	A-4	0	0-5	90-100	85-100	75-90	55-70	25-30	5-10
	3-10	Clay loam	CL	A-6	0	0-5	90-100	85-100	80-95	65-75	30-40	10-20
	10-32	Clay loam, clay	CL, CH	A-7	0	0-5	90-100	85-100	80-100	70-90	40-65	25-40
	32-42	Unweathered bedrock			---	---	---	---	---	---	---	---
Fivepine-----	0-3	Loam	CL-ML, CL	A-4	0	0-15	85-100	80-90	75-85	50-75	25-30	5-10
	3-9	Flaggy clay loam	CL	A-6	10-30	10-20	85-95	80-90	80-90	65-75	30-40	10-20
	9-12	Flaggy clay, flaggy clay loam	CL	A-7, A-6	10-30	10-20	85-95	80-90	80-90	65-80	30-45	15-25
	12-15	Flaggy clay	CL	A-7	10-30	10-20	85-95	80-90	80-90	70-90	40-50	20-30
	15-19	Unweathered bedrock			---	---	---	---	---	---	---	---
972: Pagoda-----	0-1	Slightly decomposed plant material	PT		0	0	100	100	---	---	---	---
	1-5	Clay loam	CL	A-6	0	0-5	95-100	90-100	80-95	60-80	30-35	10-15
	5-16	Clay loam	CL	A-6	0	0-5	95-100	90-100	80-95	60-80	30-35	10-15
	16-21	Clay loam, clay	CL	A-6, A-7	0	0-5	95-100	90-100	80-95	70-90	35-50	15-25
	21-32	Clay, clay loam	CL	A-7, A-6	0	0-5	95-100	90-100	80-95	70-90	30-50	10-20
	32-61	Clay, clay loam	CL	A-7, A-6	0	0-5	95-100	90-100	80-95	70-90	30-50	10-20
Coulterg-----	0-5	Clay loam	CL	A-6	0	0	95-100	95-100	85-95	70-80	25-35	10-15
	5-10	Clay loam	CL	A-6	0	0	95-100	95-100	85-95	70-80	25-35	10-15
	10-14	Channery loam, loam, clay loam, sandy clay loam	CL-ML, CL	A-4	0	0-5	85-100	75-100	65-95	50-75	20-30	5-10
	14-31	Channery loam, loam, clay loam, sandy clay loam	CL-ML, CL	A-4	0	0-5	85-100	75-100	65-95	50-75	20-30	5-10
	31-60	Channery loam, loam, clay loam, sandy clay loam	CL, CL-ML	A-4	0	0-5	75-100	70-100	65-95	50-75	20-30	5-10
Wiggler-----	0-4	Channery loam	SC-SM, GC, SC	A-4	0	0-5	65-95	60-75	45-65	35-50	25-30	5-10
	4-10	Channery loam, very channery silty clay loam, channery silty clay loam	GC, CL-ML, GC-GM, CL	A-4, A-6	0	0-5	55-80	55-75	50-70	35-60	25-35	5-15
	10-20	Unweathered bedrock			---	---	---	---	---	---	---	---
989: Ryman-----	0-19	Loam	CL-ML, CL	A-4	0	0	95-100	95-100	85-95	60-75	25-30	5-10
	19-36	Clay loam, clay	CL	A-7, A-6	0	0-15	85-100	80-95	70-95	60-90	35-45	15-20
	36-60	Cobbly clay, cobbly clay loam	CL	A-6, A-7	0	15-35	85-95	75-95	70-95	55-75	35-45	15-20

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In.				Pct.	Pct.					Pct.	
990: Ryman, warm----	0-4	Loam	CL-ML, CL	A-4	0	0	95-100	95-100	85-95	60-75	25-30	5-10
	4-18	Clay loam	CL	A-6	0	0	85-100	80-100	75-90	60-75	30-35	10-15
	18-32	Clay, clay loam	CL	A-6, A-7	0	0-15	85-100	80-95	70-95	60-90	35-45	15-20
	32-60	Cobbly clay, cobbly clay loam	CL	A-6, A-7	0	15-35	75-95	70-95	65-90	50-85	35-45	15-20
992: Gladlow-----	0-5	Clay loam	CL	A-6	0	0	95-100	90-100	90-100	70-80	30-40	10-20
	5-14	Silty clay loam, silty clay	ML	A-7	0	0	95-100	90-100	85-100	80-95	40-50	10-20
	14-24	Silty clay loam, silty clay	ML	A-4, A-6, A-7	0	0	95-100	90-100	85-100	80-95	30-45	5-20
	24-31	Silty clay loam, silty clay	ML	A-4, A-6, A-7	0	0	95-100	90-100	85-100	80-95	30-45	5-20
	31-60	Silty clay loam, silty clay, clay loam	CL	A-6, A-7	0	0	95-100	85-100	80-100	70-95	35-45	15-20
996: Zoltay-----	0-6	Loam	CL-ML, CL		0	0	95-100	90-100	70-85	60-75	25-30	5-10
	6-14	Clay loam	CL	A-6	0	0	95-100	90-100	75-90	60-80	30-35	10-15
	14-23	Clay, gravelly clay, cobbly clay loam	CL	A-6, A-7	0-10	0-30	75-95	70-90	55-80	50-75	35-45	15-20
	23-29	Clay, gravelly clay, cobbly clay, cobbly clay loam	CL	A-6, A-7	0-10	0-30	75-95	70-90	55-80	50-75	35-45	15-20
	29-46	Clay, cobbly clay loam, clay loam, very cobbly clay loam	CL	A-7, A-6	0-15	0-55	70-95	65-90	55-80	50-75	30-45	10-20
	46-60	Clay, cobbly clay loam, clay loam	CL	A-7, A-6	0-15	0-45	70-95	65-90	55-80	50-75	30-45	10-20
997: Zigzag-----	0-6	Silty clay loam	ML	A-7	0	0-10	85-100	80-100	75-95	70-90	40-45	10-15
	6-15	Clay loam, clay, silty clay loam	CL	A-6, A-7	0	0-10	90-100	85-100	75-100	60-95	35-45	15-20
	15-25	Weathered bedrock			---	---	---	---	---	---	---	---
Bodot-----	0-3	Silty clay loam	ML	A-4, A-7	0	0	90-100	80-100	80-100	70-95	30-50	5-15
	3-18	Clay, clay loam, silty clay loam, silty clay	CL	A-6, A-7	0	0	90-100	80-100	70-100	65-95	35-50	15-25
	18-38	Clay, clay loam, silty clay loam, silty clay	CL	A-6, A-7	0	0	90-100	80-100	70-100	65-95	35-50	15-25
	38-48	Weathered bedrock			---	---	---	---	---	---	---	---
Rock outcrop----	0-60	Unweathered bedrock			---	---	---	---	---	---	---	---

Table 24.--Physical properties of the soils

(Entries under "Erosion factors--T" apply to the entire profile. Entries under "Wind erodibility group" and "Wind erodibility index" apply only to the surface layer. Absence of an entry indicates that data were not estimated.)

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Permea- bility (Ksat)	Available water capacity	Linear extensi- bility	Organic matter	Erosion factors			Wind erodi- bility group	Wind erodi- bility index
										Kw	Kf	T		
	In.	Pct.	Pct.	Pct.	g/cc	In./hr.	In./in.	Pct.	Pct.					
1: Bradfield-----	0-7	---	---	27-40	1.30-1.40	0.2-0.6	0.18-0.20	3.0-5.9	2.0-5.0	.15	.15	5	6	48
	7-15	---	---	35-55	1.20-1.35	0.06-0.2	0.15-0.18	6.0-8.9	2.0-4.0	.17	.17			
	15-28	---	---	35-60	1.25-1.40	0.06-0.2	0.15-0.18	6.0-8.9	2.0-3.0	.20	.20			
	28-36	---	---	35-60	1.25-1.40	0.06-0.2	0.15-0.18	6.0-8.9	0.5-2.0	.24	.24			
	36-60	---	---	35-50	1.20-1.35	0.06-0.6	0.14-0.18	6.0-8.9	0.0-0.5	.28	.28			
Narraguinnep-----	0-6	---	---	27-40	1.25-1.35	0.06-0.2	0.16-0.19	3.0-5.9	1.0-3.0	.20	.20	5	6	48
	6-17	---	---	35-50	1.15-1.25	0.06-0.2	0.14-0.16	6.0-8.9	1.0-3.0	.20	.20			
	17-23	---	---	35-50	1.15-1.25	0.06-0.2	0.14-0.16	6.0-8.9	1.0-3.0	.20	.20			
	23-30	---	---	27-50	1.25-1.35	0.06-0.2	0.13-0.18	3.0-8.9	0.5-1.0	.24	.24			
	30-60	---	---	27-50	1.25-1.35	0.06-0.2	0.13-0.18	3.0-8.9	0.5-1.0	.24	.24			
2: Hesperus-----	0-3	---	---	15-27	1.25-1.35	0.6-2	0.16-0.18	0.0-2.9	2.0-4.0	.24	.24	5	6	48
	3-8	---	---	15-27	1.25-1.35	0.6-2	0.16-0.18	0.0-2.9	2.0-4.0	.24	.24			
	8-15	---	---	18-35	1.25-1.35	0.2-2	0.16-0.18	0.0-2.9	1.0-3.0	.28	.28			
	15-22	---	---	18-35	1.25-1.35	0.2-2	0.16-0.18	0.0-2.9	1.0-3.0	.28	.28			
	22-28	---	---	18-35	1.25-1.35	0.2-2	0.16-0.18	0.0-2.9	1.0-3.0	.28	.28			
	28-40	---	---	18-35	1.30-1.40	0.2-2	0.17-0.19	0.0-2.9	1.0-2.0	.28	.28			
	40-51	---	---	27-35	1.30-1.40	0.2-0.6	0.16-0.18	0.0-2.9	0.5-1.0	.24	.24			
	51-60	---	---	27-35	1.30-1.40	0.2-0.6	0.16-0.18	0.0-2.9	0.5-1.0	.24	.24			
10: Lillings-----	0-8	---	---	27-35	1.15-1.30	0.2-0.6	0.16-0.19	0.0-2.9	0.5-1.0	.32	.32	5	7	38
	8-27	---	---	18-35	1.25-1.30	0.2-0.6	0.14-0.19	0.0-2.9	0.5-1.0	.43	.43			
	27-50	---	---	18-35	1.25-1.30	0.2-0.6	0.14-0.19	0.0-2.9	0.0-0.5	.43	.43			
	50-60	---	---	18-35	1.25-1.30	0.2-0.6	0.14-0.19	0.0-2.9	0.0-0.5	.43	.43			
12: Shawa-----	0-7	---	---	15-27	1.25-1.35	0.6-2	0.16-0.18	0.0-2.9	1.0-3.0	.28	.28	5	6	48
	7-19	---	---	15-27	1.25-1.35	0.6-2	0.16-0.18	0.0-2.9	1.0-3.0	.28	.28			
	19-38	---	---	18-35	1.30-1.40	0.2-0.6	0.16-0.19	0.0-2.9	0.5-2.0	.24	.24			
	38-60	---	---	27-35	1.25-1.40	0.2-0.6	0.13-0.15	0.0-2.9	0.5-1.0	.15	.24			
13: Fughes-----	0-2	---	---	15-27	1.25-1.35	0.6-2	0.16-0.18	0.0-2.9	2.0-4.0	.24	.24	5	5	56
	2-7	---	---	15-27	1.25-1.35	0.6-2	0.16-0.18	0.0-2.9	2.0-4.0	.24	.24			
	7-18	---	---	35-40	1.15-1.25	0.2-0.6	0.18-0.20	3.0-5.9	0.5-1.0	.24	.24			
	18-26	---	---	35-40	1.15-1.25	0.2-0.6	0.18-0.20	3.0-5.9	0.5-1.0	.24	.24			
	26-34	---	---	35-50	1.15-1.40	0.06-0.2	0.14-0.16	6.0-8.9	0.5-1.0	.17	.17			
	34-44	---	---	35-50	1.15-1.40	0.06-0.2	0.14-0.16	6.0-8.9	0.5-1.0	.17	.17			
	44-60	---	---	35-60	1.25-1.35	0.06-0.2	0.14-0.16	6.0-8.9	0.0-0.5	.17	.17			
14: Dalmatian-----	0-2	---	---	18-25	1.25-1.35	0.6-2	0.16-0.18	0.0-2.9	2.0-4.0	.24	.24	5	6	48
	2-13	---	---	18-25	1.25-1.35	0.6-2	0.16-0.18	0.0-2.9	2.0-4.0	.24	.24			
	13-25	---	---	20-27	1.25-1.35	0.6-2	0.16-0.18	0.0-2.9	1.0-3.0	.17	.17			
	25-39	---	---	20-27	1.25-1.35	0.6-2	0.16-0.18	0.0-2.9	1.0-3.0	.17	.17			
	39-45	---	---	20-27	1.25-1.35	0.6-2	0.16-0.18	0.0-2.9	1.0-3.0	.17	.17			
	45-49	---	---	20-27	1.25-1.35	0.6-2	0.16-0.18	0.0-2.9	1.0-3.0	.17	.17			
	49-60	---	---	5-18	1.35-1.45	2-6	0.11-0.13	0.0-2.9	0.5-3.0	.15	.24			
Apmay-----	0-4	---	---	15-27	1.25-1.35	0.6-2	0.16-0.18	0.0-2.9	2.0-4.0	.37	.37	4	5	56
	4-10	---	---	27-35	1.25-1.35	0.2-0.6	0.19-0.21	3.0-5.9	2.0-3.0	.43	.43			
	10-18	---	---	27-35	1.25-1.35	0.2-0.6	0.19-0.21	3.0-5.9	2.0-3.0	.43	.43			
	18-22	---	---	10-18	1.35-1.45	2-6	0.11-0.13	0.0-2.9	0.5-1.0	.28	.28			
	22-28	---	---	0-10	1.45-1.55	6-20	0.02-0.04	0.0-2.9	0.0-0.5	.05	.24			
	28-49	---	---	5-15	1.35-1.45	2-6	0.05-0.07	0.0-2.9	0.0-0.5	.05	.32			
	49-60	---	---	0-10	1.45-1.55	6-20	0.02-0.04	0.0-2.9	0.0-0.5	.05	.24			
Schrader-----	0-4	---	---	15-27	1.25-1.35	0.6-2	0.16-0.18	0.0-2.9	2.0-4.0	.24	.24	5	8	0
	4-13	---	---	15-27	1.25-1.35	0.6-2	0.16-0.18	0.0-2.9	2.0-4.0	.24	.24			
	13-17	---	---	10-18	1.35-1.45	2-6	0.13-0.15	0.0-2.9	2.0-4.0	.20	.20			
	17-24	---	---	20-35	1.25-1.35	0.6-2	0.14-0.16	3.0-5.9	2.0-3.0	.17	.17			
	24-60	---	---	10-18	1.35-1.45	2-6	0.13-0.15	0.0-2.9	0.5-1.0	.28	.28			
15: Umbarg-----	0-9	---	---	15-27	1.25-1.35	0.6-2	0.16-0.18	0.0-2.9	2.0-4.0	.24	.24	5	6	48
	9-18	---	---	15-27	1.25-1.35	0.6-2	0.16-0.18	0.0-2.9	2.0-4.0	.24	.24			
	18-25	---	---	15-27	1.25-1.35	0.6-2	0.16-0.18	0.0-2.9	2.0-4.0	.24	.24			
	25-34	---	---	18-35	1.30-1.40	0.2-0.6	0.16-0.19	0.0-2.9	2.0-3.0	.20	.20			
	34-44	---	---	18-35	1.30-1.40	0.2-0.6	0.16-0.19	0.0-2.9	2.0-3.0	.20	.20			
	44-48	---	---	18-35	1.30-1.40	0.2-0.6	0.16-0.19	0.0-2.9	2.0-3.0	.20	.20			
	48-60	---	---	27-35	1.15-1.25	0.2-0.6	0.17-0.19	0.0-2.9	0.5-1.0	.32	.32			

Table 24.--Physical properties of the soils--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Permea- bility (Ksat)	Available water capacity	Linear extensi- bility	Organic matter	Erosion factors			Wind erodi- bility group	Wind erodi- bility index
										Kw	Kf	T		
	In.	Pct.	Pct.	Pct.	g/cc	In./hr.	In./in.	Pct.	Pct.					
16: Payter-----	0-3	---	---	5-18	1.35-1.45	2-6	0.11-0.13	0.0-2.9	2.0-4.0	.20	.20	5	3	86
	3-6	---	---	5-18	1.35-1.45	2-6	0.11-0.13	0.0-2.9	2.0-4.0	.20	.20			
	6-11	---	---	5-18	1.35-1.45	2-6	0.11-0.13	0.0-2.9	2.0-4.0	.20	.20			
	11-17	---	---	10-18	1.35-1.45	2-6	0.11-0.13	0.0-2.9	2.0-3.0	.24	.24			
	17-39	---	---	10-18	1.35-1.45	2-6	0.11-0.13	0.0-2.9	2.0-3.0	.24	.24			
	39-60	---	---	10-18	1.35-1.45	2-6	0.11-0.13	0.0-2.9	0.5-1.0	.28	.28			
17: Fluvaquents-----	0-6	---	---	5-40	1.20-1.60	0.2-6	0.06-0.18	3.0-5.9	0.5-1.0	.20	.24	3	3	86
	6-60	---	---	0-10	1.50-1.65	6-20	0.05-0.08	0.0-2.9	0.0-0.5	.10	.28			
Haplustolls-----	0-4	---	---	10-20	1.15-1.25	0.6-2	0.10-0.12	0.0-2.9	1.0-3.0	.24	.24	4	3	86
	4-11	---	---	10-25	1.15-1.35	0.6-2	0.10-0.15	0.0-2.9	1.0-3.0	.24	.24			
	11-19	---	---	10-25	1.15-1.35	0.6-2	0.10-0.15	0.0-2.9	1.0-3.0	.24	.24			
	19-24	---	---	5-18	1.40-1.60	2-20	0.06-0.10	0.0-2.9	0.5-1.0	.05	.10			
	24-60	---	---	0-18	1.50-1.70	6-20	0.02-0.06	0.0-2.9	0.0-0.5	.05	.37			
18: Endoaquolls-----	0-4	---	---	15-25	1.15-1.25	0.6-2	0.14-0.17	0.0-2.9	1.0-4.0	.28	.28	2	8	0
	4-12	---	---	15-25	1.25-1.35	0.6-6	0.10-0.13	0.0-2.9	0.5-3.0	.24	.24			
	12-14	---	---	15-25	1.25-1.35	0.6-6	0.10-0.13	0.0-2.9	0.5-3.0	.24	.24			
	14-19	---	---	15-25	1.25-1.35	0.6-6	0.10-0.13	0.0-2.9	0.5-3.0	.24	.24			
	19-28	---	---	15-25	1.25-1.35	0.6-6	0.10-0.13	0.0-2.9	0.5-3.0	.24	.24			
	28-60	---	---	0-10	1.50-1.60	6-20	0.02-0.03	0.0-2.9	0.0-0.5	.02	.20			
Ustifluvents-----	0-6	---	---	10-27	1.25-1.35	0.6-2	0.14-0.18	0.0-2.9	1.0-3.0	.28	.28	3	6	48
	6-17	---	---	10-27	1.30-1.40	0.6-2	0.13-0.17	0.0-2.9	0.5-1.0	.32	.32			
	17-24	---	---	10-20	1.35-1.45	0.6-6	0.10-0.15	0.0-2.9	0.5-1.0	.32	.32			
	24-30	---	---	10-27	1.30-1.40	0.6-2	0.13-0.17	0.0-2.9	0.5-1.0	.32	.32			
	30-60	---	---	0-5	1.55-1.65	20-101	0.01-0.03	0.0-2.9	0.0-0.5	.02	.20			
20: Mavreeso-----	0-5	---	---	18-27	1.25-1.40	0.6-2	0.14-0.18	0.0-2.9	2.0-4.0	.28	.28	5	4L	86
	5-10	---	---	18-27	1.25-1.40	0.6-2	0.14-0.18	0.0-2.9	2.0-4.0	.28	.28			
	10-18	---	---	18-27	1.25-1.40	0.6-2	0.14-0.18	0.0-2.9	1.0-2.0	.37	.37			
	18-28	---	---	18-27	1.25-1.40	0.6-2	0.13-0.16	0.0-2.9	0.5-1.0	.24	.43			
	28-42	---	---	18-27	1.25-1.40	0.6-2	0.14-0.17	0.0-2.9	0.0-0.5	.37	.37			
	42-50	---	---	15-27	1.25-1.40	0.6-2	0.10-0.14	0.0-2.9	0.0-0.5	.24	.43			
	50-60	---	---	18-27	1.25-1.40	0.6-2	0.14-0.18	0.0-2.9	0.0-0.5	.43	.43			
51: Clayburn-----	0-5	---	---	15-25	1.25-1.40	0.6-2	0.14-0.17	0.0-2.9	2.0-4.0	.24	.24	5	5	56
	5-13	---	---	15-25	1.25-1.40	0.6-2	0.14-0.17	0.0-2.9	2.0-4.0	.24	.24			
	13-18	---	---	18-35	1.30-1.40	0.2-0.6	0.16-0.18	0.0-2.9	1.0-2.0	.20	.20			
	18-36	---	---	18-35	1.30-1.40	0.2-0.6	0.16-0.18	0.0-2.9	1.0-2.0	.20	.20			
	36-48	---	---	18-35	1.30-1.40	0.2-0.6	0.16-0.18	0.0-2.9	1.0-2.0	.20	.20			
	48-60	---	---	18-30	1.25-1.35	0.6-2	0.13-0.16	0.0-2.9	0.5-1.0	.20	.20			
Hourglass-----	0-11	---	---	15-27	1.25-1.35	0.6-2	0.16-0.18	0.0-2.9	2.0-4.0	.24	.24	5	6	48
	11-18	---	---	20-35	1.30-1.40	0.2-0.6	0.14-0.18	0.0-2.9	0.5-1.0	.15	.24			
	18-31	---	---	20-35	1.30-1.40	0.2-0.6	0.14-0.18	0.0-2.9	0.5-1.0	.15	.24			
	31-46	---	---	27-35	1.25-1.40	0.2-0.6	0.12-0.18	0.0-2.9	0.0-0.5	.10	.28			
	46-60	---	---	20-35	1.30-1.40	0.2-2	0.09-0.16	0.0-2.9	0.0-0.5	.10	.28			
52: Ohwiler-----	0-8	---	---	10-20	1.30-1.35	0.6-2	0.16-0.19	0.0-2.9	2.0-5.0	.20	.20	5	5	56
	8-15	---	---	10-20	1.30-1.35	0.6-2	0.16-0.19	0.0-2.9	2.0-5.0	.20	.20			
	15-30	---	---	24-35	1.30-1.40	0.2-2	0.16-0.19	0.0-2.9	1.0-3.0	.20	.20			
	30-40	---	---	24-35	1.30-1.40	0.2-2	0.16-0.19	0.0-2.9	1.0-3.0	.20	.20			
	40-52	---	---	18-35	1.30-1.40	0.6-2	0.16-0.19	0.0-2.9	0.0-0.5	.28	.28			
	52-60	---	---	18-35	1.30-1.40	0.6-2	0.16-0.19	0.0-2.9	0.0-0.5	.28	.28			
53: Cryaquolls-----	0-7	---	---	10-27	1.25-1.40	0.6-2	0.14-0.17	0.0-2.9	2.0-6.0	.20	.20	5	6	48
	7-12	---	---	10-27	1.25-1.40	0.6-2	0.14-0.17	0.0-2.9	2.0-6.0	.20	.20			
	12-60	---	---	10-32	1.25-1.50	0.2-6	0.05-0.18	0.0-2.9	0.0-1.0	.20	.28			
Typic Cryaquents----	0-3	---	---	15-27	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	5	5	56
	3-11	---	---	15-27	1.35-1.40	0.6-2	0.14-0.16	0.0-2.9	0.5-1.0	.37	.37			
	11-63	---	---	5-25	1.40-1.50	2-6	0.03-0.14	0.0-2.9	0.0-1.0	.20	.37			
54: Quazar-----	0-3	---	---	15-27	1.30-1.35	0.6-2	0.07-0.09	0.0-2.9	2.0-4.0	.10	.24	5	8	0
	3-12	---	---	15-27	1.30-1.35	0.6-2	0.07-0.09	0.0-2.9	2.0-4.0	.10	.24			
	12-26	---	---	20-35	1.30-1.40	0.6-2	0.04-0.06	0.0-2.9	0.5-1.0	.02	.20			
	26-60	---	---	20-35	1.30-1.40	0.6-2	0.04-0.06	0.0-2.9	0.0-0.5	.02	.20			
56: Typic Cryaquents----	0-3	---	---	15-27	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	5	8	0
	3-11	---	---	15-27	1.20-1.40	0.6-2	0.16-0.18	0.0-2.9	0.5-2.0	.37	.37			
	11-63	---	---	5-25	1.40-1.50	2-6	0.03-0.14	0.0-2.9	0.0-1.0	.20	.37			

Table 24.--Physical properties of the soils--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Permea- bility (Ksat)	Available water capacity	Linear extensi- bility	Organic matter	Erosion factors			Wind erodi- bility group	Wind erodi- bility index
										Kw	Kf	T		
	In.	Pct.	Pct.	Pct.	g/cc	In./hr.	In./in.	Pct.	Pct.					
56: Cryaquolls-----	0-7	---	---	10-27	1.25-1.40	0.6-2	0.14-0.17	0.0-2.9	2.0-6.0	.20	.20	5	6	48
	7-12	---	---	10-27	1.25-1.40	0.6-2	0.14-0.17	0.0-2.9	2.0-6.0	.20	.20			
	12-60	---	---	10-32	1.25-1.50	0.2-6	0.05-0.18	0.0-2.9	0.0-1.0	.20	.28			
Cryofibrists-----	0-10	---	---	10-20	0.20-1.00	0.6-6	0.20-0.28	0.0-2.9	50-95	.02	.02	3	8	0
	10-30	---	---	10-20	0.20-1.00	0.6-6	0.20-0.28	0.0-2.9	50-95	.02	.02			
	30-60	---	---	10-20	0.50-1.20	0.6-6	0.20-0.28	0.0-2.9	75-95	.02	.02			
57: Howardsville-----	0-2	---	---	18-27	1.30-1.40	0.6-2	0.10-0.12	0.0-2.9	0.0-2.0	.20	.37	1	6	48
	2-10	---	---	5-18	1.40-1.50	6-20	0.05-0.07	0.0-2.9	0.0-1.0	.10	.28			
	10-60	---	---	0-10	1.50-1.60	20-101	0.01-0.03	0.0-2.9	0.0-0.5	.02	.20			
58: Fughes-----	0-8	---	---	15-27	1.30-1.40	0.6-2	0.16-0.18	0.0-2.9	2.0-4.0	.24	.24	5	6	48
	8-20	---	---	35-40	1.25-1.35	0.2-0.6	0.18-0.20	3.0-5.9	0.5-1.0	.24	.24			
	20-26	---	---	35-40	1.25-1.35	0.2-0.6	0.18-0.20	3.0-5.9	0.5-1.0	.24	.24			
	26-44	---	---	35-50	1.15-1.40	0.06-0.2	0.14-0.16	6.0-8.9	0.5-1.0	.17	.17			
	44-60	---	---	35-60	1.25-1.35	0.06-0.2	0.10-0.16	3.0-5.9	0.0-0.5	.10	.17			
Herm-----	0-6	---	---	15-25	1.25-1.30	0.6-6	0.13-0.16	0.0-2.9	2.0-3.0	.28	.28	5	5	56
	6-13	---	---	27-40	1.35-1.40	0.06-0.6	0.16-0.19	3.0-5.9	2.0-3.0	.28	.28			
	13-17	---	---	35-50	1.25-1.35	0.06-0.2	0.14-0.17	6.0-8.9	0.5-1.0	.24	.24			
	17-45	---	---	35-50	1.25-1.35	0.06-0.2	0.14-0.17	6.0-8.9	0.5-1.0	.24	.24			
	45-60	---	---	30-40	1.35-1.40	0.06-0.6	0.16-0.19	3.0-5.9	0.0-0.5	.28	.28			
59: Fughes-----	0-20	---	---	20-27	1.25-1.45	0.6-2	0.10-0.13	0.0-2.9	2.0-4.0	.15	.24	5	6	48
	20-26	---	---	35-50	1.15-1.40	0.06-0.2	0.14-0.21	6.0-8.9	1.0-3.0	.20	.20			
	26-44	---	---	35-50	1.15-1.40	0.06-0.2	0.14-0.21	6.0-8.9	1.0-3.0	.20	.20			
	44-60	---	---	35-60	1.15-1.40	0.06-0.2	0.17-0.21	6.0-8.9	0.0-0.5	.28	.28			
Herm-----	0-6	---	---	15-25	1.30-1.40	0.6-2	0.12-0.15	0.0-2.9	3.0-5.0	.10	.20	5	6	48
	6-13	---	---	27-40	1.25-1.40	0.2-0.6	0.16-0.18	3.0-5.9	2.0-3.0	.10	.20			
	13-17	---	---	35-50	1.20-1.30	0.06-0.2	0.16-0.18	6.0-8.9	0.5-1.0	.28	.28			
	17-45	---	---	35-50	1.20-1.30	0.06-0.2	0.16-0.18	6.0-8.9	0.5-1.0	.28	.28			
	45-60	---	---	30-40	1.35-1.40	0.06-0.6	0.16-0.19	3.0-5.9	0.0-0.5	.28	.28			
60: Grimes-----	0-5	---	---	5-15	1.25-1.45	2-6	0.05-0.08	0.0-2.9	1.0-2.0	.10	.24	5	8	0
	5-22	---	---	5-15	1.35-1.60	6-20	0.02-0.04	0.0-2.9	0.5-1.0	.05	.28			
	22-60	---	---	0-5	1.40-1.65	6-101	0.01-0.03	0.0-2.9	0.0-0.5	.05	.24			
110: Sheek-----	0-2	---	---	27-35	1.25-1.35	0.2-0.6	0.12-0.13	0.0-2.9	1.0-2.0	.05	.20	5	8	0
	2-7	---	---	27-35	1.25-1.35	0.2-0.6	0.15-0.17	0.0-2.9	0.5-1.0	.15	.24			
	7-20	---	---	27-35	1.25-1.35	0.2-0.6	0.09-0.11	0.0-2.9	0.0-0.5	.10	.28			
	20-29	---	---	18-27	1.25-1.35	0.6-2	0.07-0.09	0.0-2.9	0.0-0.5	.15	.43			
	29-46	---	---	27-35	1.25-1.35	0.2-0.6	0.14-0.16	0.0-2.9	0.0-0.5	.15	.28			
	46-60	---	---	18-27	1.25-1.35	0.6-2	0.07-0.09	0.0-2.9	0.0-0.5	.15	.43			
Ormiston-----	0-7	---	---	15-27	1.25-1.35	0.6-2	0.13-0.16	0.0-2.9	2.0-4.0	.24	.24	3	6	48
	7-24	---	---	35-60	1.35-1.40	0.06-0.2	0.07-0.11	3.0-5.9	0.0-1.0	.10	.28			
	24-32	---	---	35-60	1.35-1.40	0.06-0.2	0.07-0.11	3.0-5.9	0.0-1.0	.10	.28			
	32-44	---	---	27-40	1.30-1.40	0.2-0.6	0.13-0.16	3.0-5.9	0.0-0.5	.15	.28			
	44-54	---	---	---	---	0.0000-0.06	---	---	---	---	---			
111: Fardraw-----	0-8	---	---	15-27	1.35-1.40	0.6-2	0.14-0.16	0.0-2.9	3.0-5.0	.20	.20	3	6	48
	8-11	---	---	15-27	1.35-1.40	0.6-2	0.14-0.16	0.0-2.9	3.0-5.0	.20	.20			
	11-15	---	---	35-45	1.40-1.55	0.2-0.6	0.08-0.11	3.0-5.9	1.0-2.0	.05	.20			
	15-29	---	---	35-50	1.40-1.55	0.06-0.2	0.07-0.09	3.0-5.9	0.5-1.0	.05	.17			
	29-51	---	---	35-50	1.40-1.55	0.06-0.2	0.07-0.09	3.0-5.9	0.5-1.0	.05	.17			
	51-60	---	---	35-45	1.40-1.55	0.06-0.2	0.07-0.09	3.0-5.9	0.0-0.5	.05	.17			
113: Dolores-----	0-1	---	---	15-27	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	5	6	48
	1-8	---	---	15-27	1.25-1.35	0.6-2	0.13-0.16	0.0-2.9	2.0-4.0	.24	.24			
	8-24	---	---	35-40	1.30-1.40	0.06-0.2	0.06-0.07	0.0-2.9	0.5-1.0	.05	.24			
	24-49	---	---	35-55	1.20-1.30	0.06-0.2	0.05-0.06	0.0-2.9	0.0-0.5	.02	.17			
	49-61	---	---	27-45	1.15-1.35	0.06-0.2	0.03-0.06	0.0-2.9	0.0-0.5	.02	.17			
150: Sillex-----	0-1	---	---	15-27	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	1	6	48
	1-4	---	---	15-27	1.30-1.40	0.6-2	0.13-0.16	0.0-2.9	0.5-1.0	.37	.37			
	4-10	---	---	20-35	1.30-1.40	0.2-0.6	0.14-0.21	0.0-2.9	0.0-0.5	.28	.28			
	10-18	---	---	20-35	1.30-1.40	0.2-0.6	0.12-0.16	0.0-2.9	0.0-0.5	.24	.24			
	18-22	---	---	---	---	0.0000-0.06	---	---	---	---	---			
Rock outcrop-----	0-60	---	---	---	---	0.0000-0.06	0.00-0.00	---	---	---	---	-	8	0

Table 24.--Physical properties of the soils--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Permea- bility (Ksat)	Available water capacity	Linear extensi- bility	Organic matter	Erosion factors			Wind erodi- bility group	Wind erodi- bility index
										Kw	Kf	T		
	In.	Pct.	Pct.	Pct.	g/cc	In./hr.	In./in.	Pct.	Pct.					
151: Frisco-----	0-2	---	---	15-27	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	3	6	48
	2-5	---	---	15-27	1.30-1.35	0.6-2	0.13-0.16	0.0-2.9	1.0-2.0	.37	.37			
	5-11	---	---	15-27	1.30-1.35	0.6-2	0.13-0.16	0.0-2.9	0.5-1.0	.37	.37			
	11-19	---	---	15-27	1.35-1.40	0.6-2	0.10-0.14	0.0-2.9	0.5-1.0	.20	.37			
	19-48	---	---	20-35	1.35-1.40	0.6-2	0.06-0.11	0.0-2.9	0.0-0.5	.05	.43			
	48-62	---	---	18-27	1.35-1.40	0.6-2	0.06-0.11	0.0-2.9	0.0-0.5	.05	.43			
152: Frisco-----	0-2	---	---	15-27	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	3	6	48
	2-5	---	---	15-27	1.30-1.35	0.6-2	0.13-0.16	0.0-2.9	1.0-2.0	.37	.37			
	5-11	---	---	15-27	1.30-1.35	0.6-2	0.13-0.16	0.0-2.9	0.5-1.0	.37	.37			
	11-19	---	---	15-27	1.35-1.40	0.6-2	0.10-0.14	0.0-2.9	0.5-1.0	.20	.37			
	19-48	---	---	20-35	1.35-1.40	0.6-2	0.06-0.11	0.0-2.9	0.0-0.5	.05	.43			
	48-62	---	---	18-27	1.35-1.40	0.6-2	0.06-0.11	0.0-2.9	0.0-0.5	.05	.43			
153: Frisco-----	0-2	---	---	15-27	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	3	6	48
	2-5	---	---	15-27	1.30-1.35	0.6-2	0.13-0.16	0.0-2.9	1.0-2.0	.37	.37			
	5-11	---	---	15-27	1.30-1.35	0.6-2	0.13-0.16	0.0-2.9	0.5-1.0	.37	.37			
	11-19	---	---	15-27	1.35-1.40	0.6-2	0.10-0.14	0.0-2.9	0.5-1.0	.20	.37			
	19-48	---	---	20-35	1.35-1.40	0.6-2	0.06-0.11	0.0-2.9	0.0-0.5	.05	.43			
	48-62	---	---	18-27	1.35-1.40	0.6-2	0.06-0.11	0.0-2.9	0.0-0.5	.05	.43			
Horsethief-----	0-2	---	---	18-27	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	3	6	48
	2-5	---	---	18-27	1.30-1.35	0.6-2	0.16-0.18	0.0-2.9	1.0-2.0	.28	.28			
	5-16	---	---	10-20	1.35-1.40	2-6	0.12-0.15	0.0-2.9	0.5-1.0	.28	.28			
	16-24	---	---	10-20	1.35-1.40	2-6	0.12-0.15	0.0-2.9	0.5-1.0	.28	.28			
	24-32	---	---	15-35	1.30-1.40	0.6-2	0.12-0.15	0.0-2.9	0.0-0.5	.24	.24			
	32-49	---	---	18-35	1.30-1.40	0.2-0.6	0.08-0.10	0.0-2.9	0.0-0.5	.10	.28			
	49-62	---	---	18-35	1.30-1.40	0.2-0.6	0.08-0.10	0.0-2.9	0.0-0.5	.10	.28			
154: Frisco-----	0-2	---	---	15-27	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	3	6	48
	2-5	---	---	15-27	1.30-1.35	0.6-2	0.13-0.16	0.0-2.9	1.0-2.0	.37	.37			
	5-11	---	---	15-27	1.30-1.35	0.6-2	0.13-0.16	0.0-2.9	0.5-1.0	.37	.37			
	11-19	---	---	15-27	1.35-1.40	0.6-2	0.10-0.14	0.0-2.9	0.5-1.0	.20	.37			
	19-48	---	---	20-35	1.35-1.40	0.6-2	0.06-0.11	0.0-2.9	0.0-0.5	.05	.43			
	48-62	---	---	18-27	1.35-1.40	0.6-2	0.06-0.11	0.0-2.9	0.0-0.5	.05	.43			
Horsethief-----	0-2	---	---	18-27	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	3	6	48
	2-5	---	---	18-27	1.30-1.35	0.6-2	0.16-0.18	0.0-2.9	1.0-2.0	.28	.28			
	5-16	---	---	10-20	1.35-1.40	2-6	0.12-0.15	0.0-2.9	0.5-1.0	.28	.28			
	16-24	---	---	10-20	1.35-1.40	2-6	0.12-0.15	0.0-2.9	0.5-1.0	.28	.28			
	24-32	---	---	15-35	1.30-1.40	0.6-2	0.12-0.15	0.0-2.9	0.0-0.5	.24	.24			
	32-49	---	---	18-35	1.30-1.40	0.2-0.6	0.08-0.10	0.0-2.9	0.0-0.5	.10	.28			
	49-62	---	---	18-35	1.30-1.40	0.2-0.6	0.08-0.10	0.0-2.9	0.0-0.5	.10	.28			
155: Tuckerville-----	0-3	---	---	15-25	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	5	5	56
	3-6	---	---	15-25	1.35-1.45	0.6-2	0.11-0.14	0.0-2.9	0.5-1.0	.20	.37			
	6-21	---	---	10-20	1.40-1.45	0.6-6	0.06-0.08	0.0-2.9	0.5-1.0	.10	.28			
	21-26	---	---	15-27	1.25-1.45	0.6-2	0.05-0.11	0.0-2.9	0.5-1.0	.10	.32			
	26-47	---	---	18-35	1.25-1.45	0.6-2	0.05-0.11	0.0-2.9	0.0-0.5	.10	.32			
	47-63	---	---	10-20	1.45-1.50	2-6	0.03-0.05	0.0-2.9	0.0-0.5	.10	.32			
Rock outcrop-----	0-60	---	---	---	---	0.0000-0.06	0.00-0.00	---	---	---	---	-	8	0
156: Sponsor-----	0-1	---	---	15-27	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	5	6	48
	1-7	---	---	15-27	1.30-1.40	0.6-2	0.14-0.16	0.0-2.9	2.0-5.0	.20	.20			
	7-12	---	---	15-27	1.30-1.40	0.6-2	0.14-0.16	0.0-2.9	2.0-5.0	.20	.20			
	12-25	---	---	27-35	1.25-1.40	0.2-0.6	0.14-0.16	0.0-2.9	0.5-1.0	.15	.24			
	25-43	---	---	27-35	1.25-1.40	0.2-0.6	0.14-0.16	0.0-2.9	0.5-1.0	.15	.24			
	43-61	---	---	27-35	1.35-1.45	0.2-0.6	0.09-0.11	0.0-2.9	0.0-0.5	.10	.28			
Tuckerville-----	0-3	---	---	15-25	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	5	5	56
	3-6	---	---	15-25	1.20-1.35	0.6-2	0.13-0.16	0.0-2.9	1.0-3.0	.20	.20			
	6-21	---	---	15-25	1.30-1.40	0.6-2	0.11-0.14	0.0-2.9	0.5-1.0	.20	.37			
	21-26	---	---	15-27	1.30-1.40	0.6-2	0.06-0.11	0.0-2.9	0.0-0.5	.10	.28			
	26-47	---	---	18-35	1.30-1.40	0.6-2	0.06-0.11	0.0-2.9	0.0-0.5	.10	.28			
	47-63	---	---	10-20	1.45-1.50	2-6	0.05-0.07	0.0-2.9	0.0-0.5	.10	.32			
157: Sponsor-----	0-1	---	---	15-27	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	5	6	48
	1-7	---	---	15-27	1.30-1.40	0.6-2	0.14-0.16	0.0-2.9	2.0-5.0	.20	.20			
	7-12	---	---	15-27	1.30-1.40	0.6-2	0.14-0.16	0.0-2.9	2.0-5.0	.20	.20			
	12-25	---	---	27-35	1.25-1.40	0.2-0.6	0.14-0.16	0.0-2.9	0.5-1.0	.15	.24			
	25-43	---	---	27-35	1.25-1.40	0.2-0.6	0.14-0.16	0.0-2.9	0.5-1.0	.15	.24			
	43-61	---	---	27-35	1.35-1.45	0.2-0.6	0.09-0.11	0.0-2.9	0.0-0.5	.10	.28			

Table 24.--Physical properties of the soils--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Permea- bility (Ksat)	Available water capacity	Linear extensi- bility	Organic matter	Erosion factors			Wind erodi- bility group	Wind erodi- bility index
										Kw	Kf	T		
	In.	Pct.	Pct.	Pct.	g/cc	In./hr.	In./in.	Pct.	Pct.					
157: Tuckerville-----	0-3	---	---	15-25	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	5	5	56
	3-6	---	---	15-25	1.25-1.45	0.6-2	0.11-0.14	0.0-2.9	0.5-1.0	.20	.37			
	6-21	---	---	15-25	1.25-1.45	0.6-2	0.11-0.14	0.0-2.9	0.5-1.0	.20	.37			
	21-26	---	---	15-25	1.25-1.40	0.6-2	0.06-0.11	0.0-2.9	0.0-0.5	.10	.28			
	26-47	---	---	18-35	1.25-1.40	0.6-2	0.06-0.11	0.0-2.9	0.0-0.5	.10	.28			
	47-63	---	---	10-20	1.45-1.50	2-6	0.05-0.07	0.0-2.9	0.0-0.5	.10	.32			
158: Sponsor-----	0-1	---	---	15-27	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	5	6	48
	1-7	---	---	15-27	1.30-1.40	0.6-2	0.14-0.16	0.0-2.9	2.0-5.0	.20	.20			
	7-12	---	---	15-27	1.30-1.40	0.6-2	0.14-0.16	0.0-2.9	2.0-5.0	.20	.20			
	12-25	---	---	27-35	1.25-1.40	0.2-0.6	0.14-0.16	0.0-2.9	0.5-1.0	.15	.24			
	25-43	---	---	27-35	1.25-1.40	0.2-0.6	0.14-0.16	0.0-2.9	0.5-1.0	.15	.24			
	43-61	---	---	27-35	1.35-1.45	0.2-0.6	0.09-0.11	0.0-2.9	0.0-0.5	.10	.28			
Tuckerville-----	0-3	---	---	15-25	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	5	5	56
	3-6	---	---	15-25	1.20-1.35	0.6-2	0.13-0.16	0.0-2.9	1.0-3.0	.20	.20			
	6-21	---	---	15-25	1.30-1.40	0.6-2	0.11-0.14	0.0-2.9	0.5-1.0	.20	.37			
	21-26	---	---	15-25	1.25-1.40	0.6-2	0.06-0.11	0.0-2.9	0.0-0.5	.10	.28			
	26-47	---	---	18-35	1.25-1.40	0.6-2	0.06-0.11	0.0-2.9	0.0-0.5	.10	.28			
	47-63	---	---	10-20	1.45-1.50	2-6	0.05-0.07	0.0-2.9	0.0-0.5	.10	.32			
159: Tuckerville-----	0-3	---	---	10-20	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	5	8	0
	3-6	---	---	10-20	1.45-1.50	2-6	0.07-0.10	0.0-2.9	0.5-1.0	.10	.28			
	6-21	---	---	10-20	1.45-1.50	2-6	0.07-0.10	0.0-2.9	0.5-1.0	.10	.28			
	21-26	---	---	15-30	1.35-1.40	0.6-2	0.05-0.11	0.0-2.9	0.5-1.0	.10	.24			
	26-47	---	---	18-35	1.35-1.40	0.6-2	0.05-0.11	0.0-2.9	0.5-1.0	.10	.24			
	47-63	---	---	10-25	1.45-1.50	2-6	0.03-0.05	0.0-2.9	0.0-0.5	.10	.32			
160: Anvik-----	0-1	---	---	15-25	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	5	5	56
	1-7	---	---	15-25	1.25-1.40	0.6-2	0.14-0.18	0.0-2.9	2.0-4.0	.24	.24			
	7-11	---	---	15-25	1.25-1.40	0.6-2	0.14-0.18	0.0-2.9	2.0-4.0	.24	.24			
	11-22	---	---	10-25	1.25-1.50	0.6-6	0.12-0.17	0.0-2.9	0.1-1.0	.28	.28			
	22-31	---	---	20-35	1.25-1.35	0.6-2	0.18-0.20	0.0-2.9	0.0-1.0	.28	.28			
	31-45	---	---	20-35	1.25-1.35	0.6-2	0.18-0.20	0.0-2.9	0.0-1.0	.28	.28			
	45-61	---	---	20-35	1.45-1.55	0.6-2	0.12-0.15	0.0-2.9	0.0-0.5	.28	.28			
Tuckerville-----	0-3	---	---	15-25	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	5	5	56
	3-6	---	---	15-25	1.35-1.45	0.6-2	0.11-0.14	0.0-2.9	0.5-1.0	.20	.37			
	6-21	---	---	15-25	1.35-1.45	0.6-2	0.11-0.14	0.0-2.9	0.5-1.0	.20	.37			
	21-26	---	---	15-25	1.35-1.40	0.6-2	0.05-0.11	0.0-2.9	0.5-1.0	.10	.24			
	26-47	---	---	18-35	1.35-1.40	0.6-2	0.05-0.11	0.0-2.9	0.5-1.0	.10	.24			
	47-63	---	---	10-20	1.45-1.50	2-6	0.03-0.05	0.0-2.9	0.0-0.5	.10	.32			
161: Needleton-----	0-2	---	---	10-27	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	5	5	56
	2-16	---	---	10-27	1.30-1.45	0.6-2	0.09-0.12	0.0-2.9	0.5-1.0	.20	.37			
	16-26	---	---	15-30	1.30-1.40	0.6-2	0.07-0.10	0.0-2.9	0.5-1.0	.10	.20			
	26-48	---	---	18-35	1.30-1.40	0.2-0.6	0.05-0.08	0.0-2.9	0.0-0.5	.10	.24			
	48-62	---	---	27-35	1.30-1.40	0.2-0.6	0.05-0.08	0.0-2.9	0.0-0.5	.10	.24			
162: Quazar-----	0-12	---	---	15-27	1.30-1.35	0.6-2	0.07-0.09	0.0-2.9	2.0-4.0	.10	.24	5	8	0
	12-26	---	---	20-35	1.30-1.40	0.6-2	0.04-0.06	0.0-2.9	0.5-2.0	.02	.20			
	26-60	---	---	27-35	1.30-1.40	0.6-2	0.04-0.06	0.0-2.9	0.0-0.5	.02	.20			
Varden-----	0-15	---	---	10-27	1.25-1.35	0.6-2	0.07-0.10	0.0-2.9	2.0-5.0	.05	.20	2	8	0
	15-30	---	---	10-27	1.30-1.40	2-6	0.03-0.07	0.0-2.9	0.5-1.0	.05	.24			
	30-60	---	---	10-27	1.25-1.40	20-101	0.01-0.03	0.0-2.9	0.0-0.5	.05	.24			
163: Clayburn-----	0-5	---	---	15-25	1.25-1.40	0.6-2	0.14-0.17	0.0-2.9	2.0-4.0	.24	.24	5	5	56
	5-13	---	---	15-25	1.25-1.40	0.6-2	0.14-0.17	0.0-2.9	2.0-4.0	.24	.24			
	13-18	---	---	20-35	1.30-1.40	0.2-0.6	0.16-0.18	0.0-2.9	1.0-2.0	.20	.20			
	18-36	---	---	20-35	1.30-1.40	0.2-0.6	0.16-0.18	0.0-2.9	1.0-2.0	.20	.20			
	36-48	---	---	20-35	1.30-1.40	0.2-0.6	0.16-0.18	0.0-2.9	1.0-2.0	.20	.20			
	48-60	---	---	15-30	1.25-1.35	0.6-2	0.13-0.16	0.0-2.9	0.5-1.0	.20	.20			
Hourglass-----	0-11	---	---	15-27	1.25-1.35	0.6-2	0.16-0.18	0.0-2.9	2.0-4.0	.24	.24	5	6	48
	11-18	---	---	20-35	1.30-1.40	0.2-0.6	0.14-0.18	0.0-2.9	0.5-1.0	.15	.24			
	18-31	---	---	20-35	1.30-1.40	0.2-0.6	0.14-0.18	0.0-2.9	0.5-1.0	.15	.24			
	31-46	---	---	27-35	1.25-1.40	0.2-0.6	0.12-0.18	0.0-2.9	0.0-0.5	.10	.28			
	46-60	---	---	20-35	1.30-1.40	0.2-2	0.09-0.16	0.0-2.9	0.0-0.5	.10	.28			
164: Hourglass-----	0-11	---	---	15-27	1.25-1.35	0.6-2	0.16-0.18	0.0-2.9	2.0-4.0	.24	.24	5	6	48
	11-18	---	---	20-35	1.30-1.40	0.2-0.6	0.14-0.18	0.0-2.9	0.5-1.0	.15	.24			
	18-31	---	---	20-35	1.30-1.40	0.2-0.6	0.14-0.18	0.0-2.9	0.5-1.0	.15	.24			
	31-46	---	---	27-35	1.25-1.40	0.2-0.6	0.12-0.18	0.0-2.9	0.0-0.5	.10	.28			
	46-60	---	---	20-35	1.30-1.40	0.2-2	0.09-0.16	0.0-2.9	0.0-0.5	.10	.28			

Table 24.--Physical properties of the soils--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Permea- bility (Ksat)	Available water capacity	Linear extensi- bility	Organic matter	Erosion factors			Wind erodi- bility group	Wind erodi- bility index
										Kw	Kf	T		
	In.	Pct.	Pct.	Pct.	g/cc	In./hr.	In./in.	Pct.	Pct.					
164: Bucklon-----	0-1	---	---	18-35	1.25-1.40	0.6-2	0.17-0.20	0.0-2.9	2.0-5.0	.20	.20	2	6	48
	1-12	---	---	18-35	1.25-1.40	0.6-2	0.17-0.20	0.0-2.9	2.0-5.0	.20	.20			
	12-22	---	---	---	---	0.0000-0.06	---	---	---	---	---			
Wander-----	0-14	---	---	15-27	1.30-1.35	0.6-2	0.07-0.09	0.0-2.9	2.0-4.0	.10	.24	5	8	0
	14-27	---	---	20-35	1.30-1.40	0.2-0.6	0.06-0.11	0.0-2.9	0.5-1.0	.02	.20			
	27-40	---	---	20-35	1.30-1.40	0.2-0.6	0.06-0.11	0.0-2.9	0.5-1.0	.02	.20			
	40-60	---	---	20-35	1.30-1.40	0.2-0.6	0.06-0.11	0.0-2.9	0.5-1.0	.02	.20			
165: Pinacol-----	0-1	---	---	10-27	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	4	5	56
	1-4	---	---	10-27	1.15-1.25	0.6-2	0.14-0.21	0.0-2.9	0.5-1.0	.28	.28			
	4-13	---	---	10-27	1.15-1.25	0.6-2	0.14-0.21	0.0-2.9	0.5-1.0	.28	.28			
	13-20	---	---	35-40	1.35-1.40	0.06-0.2	0.13-0.16	3.0-5.9	0.5-1.0	.15	.24			
	20-33	---	---	35-50	1.25-1.40	0.06-0.2	0.04-0.11	3.0-5.9	0.0-0.5	.05	.17			
	33-49	---	---	35-40	1.25-1.40	0.06-0.2	0.04-0.11	3.0-5.9	0.0-0.5	.10	.28			
	49-61	---	---	20-40	1.25-1.40	0.06-0.6	0.07-0.11	0.0-2.9	0.0-0.5	.10	.28			
166: Pinacol-----	0-1	---	---	10-27	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	4	5	56
	1-4	---	---	10-27	1.15-1.25	0.6-2	0.14-0.21	0.0-2.9	0.5-1.0	.28	.28			
	4-13	---	---	10-27	1.15-1.25	0.6-2	0.14-0.21	0.0-2.9	0.5-1.0	.28	.28			
	13-20	---	---	35-40	1.35-1.40	0.06-0.2	0.13-0.16	3.0-5.9	0.5-1.0	.15	.24			
	20-33	---	---	35-50	1.25-1.40	0.06-0.2	0.04-0.11	3.0-5.9	0.0-0.5	.05	.17			
	33-49	---	---	35-40	1.25-1.40	0.06-0.2	0.04-0.11	3.0-5.9	0.0-0.5	.10	.28			
	49-61	---	---	20-40	1.25-1.40	0.06-0.6	0.07-0.11	0.0-2.9	0.0-0.5	.10	.28			
250: Snowdon-----	0-2	---	---	10-27	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	1	8	0
	2-6	---	---	10-27	1.30-1.40	0.6-2	0.07-0.09	0.0-2.9	1.0-2.0	.10	.28			
	6-13	---	---	10-20	1.35-1.45	2-6	0.06-0.08	0.0-2.9	0.0-0.5	.10	.32			
	13-20	---	---	18-35	1.25-1.45	0.6-2	0.05-0.10	0.0-2.9	0.0-0.5	.05	.24			
	20-24	---	---	---	---	0.0000-0.06	---	---	---	---	---			
Rock outcrop-----	0-60	---	---	---	---	0.0000-0.06	0.00-0.00	---	---	---	---	-	8	0
251: Rock outcrop-----	0-60	---	---	---	---	0.0000-0.06	0.00-0.00	---	---	---	---	-	8	0
Snowdon-----	0-2	---	---	10-27	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	1	8	0
	2-6	---	---	10-27	1.30-1.40	0.6-2	0.07-0.09	0.0-2.9	1.0-2.0	.10	.28			
	6-13	---	---	10-20	1.35-1.45	2-6	0.06-0.08	0.0-2.9	0.0-0.5	.10	.32			
	13-20	---	---	18-35	1.25-1.45	0.6-2	0.05-0.10	0.0-2.9	0.0-0.5	.05	.24			
	20-24	---	---	---	---	0.0000-0.06	---	---	---	---	---			
254: Typic Cryorthents---	0-5	---	---	20-27	1.35-1.55	0.6-6	0.04-0.06	0.0-2.9	0.5-2.0	.05	.37	5	8	0
	5-60	---	---	10-27	1.30-1.60	0.6-6	0.04-0.06	0.0-2.9	0.0-1.0	.05	.32			
Rubble land-----	0-60	---	---	0-0	1.70-2.35	20-101	0.00-0.10	0.0-2.9	0.0-0.1	---	---	-	8	0
330: Needleton-----	0-2	---	---	10-27	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	5	5	56
	2-16	---	---	10-27	1.30-1.45	0.6-2	0.09-0.12	0.0-2.9	0.5-1.0	.20	.37			
	16-26	---	---	15-30	1.30-1.40	0.6-2	0.07-0.10	0.0-2.9	0.5-1.0	.10	.20			
	26-48	---	---	18-35	1.30-1.40	0.2-0.6	0.05-0.08	0.0-2.9	0.0-0.5	.10	.24			
	48-62	---	---	27-35	1.30-1.40	0.2-0.6	0.05-0.08	0.0-2.9	0.0-0.5	.10	.24			
331: Needleton-----	0-2	---	---	10-27	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	5	5	56
	2-16	---	---	10-27	1.30-1.45	0.6-2	0.09-0.12	0.0-2.9	0.5-1.0	.20	.37			
	16-26	---	---	15-30	1.30-1.40	0.6-2	0.07-0.10	0.0-2.9	0.5-1.0	.10	.20			
	26-48	---	---	18-35	1.30-1.40	0.2-0.6	0.05-0.08	0.0-2.9	0.0-0.5	.10	.24			
	48-62	---	---	27-35	1.30-1.40	0.2-0.6	0.05-0.08	0.0-2.9	0.0-0.5	.10	.24			
332: Horsethief-----	0-2	---	---	10-20	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	4	8	0
	2-21	---	---	10-20	1.30-1.35	2-6	0.07-0.08	0.0-2.9	1.0-2.0	.05	.28			
	21-30	---	---	10-20	1.35-1.50	2-6	0.03-0.05	0.0-2.9	0.5-1.0	.05	.28			
	30-38	---	---	15-35	1.30-1.40	0.6-2	0.12-0.15	0.0-2.9	0.0-0.5	.24	.24			
	38-55	---	---	18-35	1.30-1.40	0.2-0.6	0.08-0.10	0.0-2.9	0.0-0.5	.10	.28			
	55-62	---	---	18-35	1.30-1.40	0.2-0.6	0.08-0.10	0.0-2.9	0.0-0.5	.10	.28			
Needleton-----	0-2	---	---	10-27	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	5	5	56
	2-16	---	---	10-27	1.30-1.45	0.6-2	0.09-0.12	0.0-2.9	0.5-1.0	.20	.37			
	16-26	---	---	15-30	1.30-1.40	0.6-2	0.07-0.10	0.0-2.9	0.5-1.0	.10	.20			
	26-48	---	---	18-35	1.30-1.40	0.2-0.6	0.05-0.08	0.0-2.9	0.0-0.5	.10	.24			
	48-62	---	---	27-35	1.30-1.40	0.2-0.6	0.05-0.08	0.0-2.9	0.0-0.5	.10	.24			

Table 24.--Physical properties of the soils--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Permea- bility (Ksat)	Available water capacity	Linear extensi- bility	Organic matter	Erosion factors			Wind erodi- bility group	Wind erodi- bility index
										Kw	Kf	T		
	In.	Pct.	Pct.	Pct.	g/cc	In./hr.	In./in.	Pct.	Pct.					
333: Henson, south aspect	0-1	---	---	15-25	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	5	8	0
	1-5	---	---	15-25	1.30-1.40	0.6-2	0.06-0.09	0.0-2.9	1.0-3.0	.10	.28			
	5-13	---	---	18-35	1.35-1.45	0.6-2	0.07-0.10	0.0-2.9	0.5-1.0	.10	.24			
	13-25	---	---	20-35	1.35-1.45	0.6-2	0.07-0.10	0.0-2.9	0.5-1.0	.10	.24			
	25-61	---	---	15-30	1.35-1.45	0.6-2	0.03-0.05	0.0-2.9	0.0-1.0	.05	.28			
334: Henson, south aspect	0-1	---	---	15-25	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	5	8	0
	1-5	---	---	15-25	1.30-1.40	0.6-2	0.06-0.09	0.0-2.9	1.0-3.0	.10	.28			
	5-13	---	---	18-35	1.35-1.45	0.6-2	0.07-0.10	0.0-2.9	0.5-1.0	.10	.24			
	13-25	---	---	20-35	1.35-1.45	0.6-2	0.07-0.10	0.0-2.9	0.5-1.0	.10	.24			
	25-61	---	---	15-30	1.35-1.45	0.6-2	0.03-0.05	0.0-2.9	0.0-1.0	.05	.28			
335: Whitcross-----	0-1	---	---	10-18	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	1	8	0
	1-4	---	---	10-18	1.40-1.50	2-6	0.05-0.07	0.0-2.9	1.0-4.0	.10	.24			
	4-10	---	---	10-18	1.40-1.50	2-6	0.05-0.10	0.0-2.9	0.5-1.0	.10	.28			
	10-19	---	---	10-18	1.40-1.50	2-6	0.05-0.10	0.0-2.9	0.5-1.0	.10	.28			
	19-23	---	---	---	---	0.0000-0.06	---	---	---	---	---			
Rock outcrop-----	0-60	---	---	---	---	0.0000-0.06	0.00-0.00	---	---	---	---	-	8	0
336: Whitcross, south aspect-----	0-1	---	---	10-18	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	1	8	0
	1-4	---	---	10-18	1.40-1.50	2-6	0.05-0.07	0.0-2.9	1.0-4.0	.10	.24			
	4-10	---	---	10-18	1.40-1.50	2-6	0.05-0.10	0.0-2.9	0.5-1.0	.10	.28			
	10-19	---	---	10-18	1.40-1.50	2-6	0.05-0.10	0.0-2.9	0.5-1.0	.10	.28			
	19-23	---	---	---	---	0.0000-0.06	---	---	---	---	---			
Rock outcrop-----	0-60	---	---	---	---	0.0000-0.06	0.00-0.00	---	---	---	---	-	8	0
337: Whitcross-----	0-1	---	---	10-18	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	1	8	0
	1-4	---	---	10-18	1.40-1.50	2-6	0.05-0.07	0.0-2.9	1.0-4.0	.10	.24			
	4-10	---	---	10-18	1.40-1.50	2-6	0.05-0.10	0.0-2.9	0.5-1.0	.10	.28			
	10-19	---	---	10-18	1.40-1.50	2-6	0.05-0.10	0.0-2.9	0.5-1.0	.10	.28			
	19-23	---	---	---	---	0.0000-0.06	---	---	---	---	---			
Rock outcrop-----	0-60	---	---	---	---	0.0000-0.06	0.00-0.00	---	---	---	---	-	8	0
338: Henson-----	0-1	---	---	15-25	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	5	8	0
	1-5	---	---	15-25	1.30-1.40	0.6-2	0.06-0.09	0.0-2.9	1.0-3.0	.10	.28			
	5-13	---	---	18-35	1.35-1.45	0.6-2	0.07-0.10	0.0-2.9	0.5-1.0	.10	.24			
	13-25	---	---	20-35	1.35-1.45	0.6-2	0.07-0.10	0.0-2.9	0.5-1.0	.10	.24			
	25-61	---	---	15-30	1.35-1.45	0.6-2	0.03-0.05	0.0-2.9	0.0-1.0	.05	.28			
339: Henson-----	0-1	---	---	15-25	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	5	8	0
	1-5	---	---	15-25	1.30-1.40	0.6-2	0.06-0.09	0.0-2.9	1.0-3.0	.10	.28			
	5-13	---	---	18-35	1.35-1.45	0.6-2	0.07-0.10	0.0-2.9	0.5-1.0	.10	.24			
	13-25	---	---	20-35	1.35-1.45	0.6-2	0.07-0.10	0.0-2.9	0.5-1.0	.10	.24			
	25-61	---	---	15-30	1.35-1.45	0.6-2	0.03-0.05	0.0-2.9	0.0-1.0	.05	.28			
340: Moran-----	0-1	---	---	18-27	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	5	8	0
	1-10	---	---	18-27	1.30-1.40	0.6-2	0.07-0.09	0.0-2.9	2.0-4.0	.10	.24			
	10-27	---	---	18-27	1.30-1.40	0.6-2	0.06-0.09	0.0-2.9	0.5-1.0	.10	.24			
	27-61	---	---	10-27	1.30-1.40	0.6-6	0.04-0.07	0.0-2.9	0.0-0.5	.05	.32			
341: Moran-----	0-1	---	---	18-27	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	5	8	0
	1-10	---	---	18-27	1.30-1.40	0.6-2	0.07-0.09	0.0-2.9	2.0-4.0	.10	.24			
	10-27	---	---	18-27	1.30-1.40	0.6-2	0.06-0.09	0.0-2.9	0.5-1.0	.10	.24			
	27-61	---	---	10-27	1.30-1.40	0.6-6	0.04-0.07	0.0-2.9	0.0-0.5	.05	.32			
342: Telluride-----	0-1	---	---	18-27	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	1	8	0
	1-7	---	---	18-27	1.25-1.35	0.6-2	0.12-0.14	0.0-2.9	2.0-5.0	.05	.20			
	7-12	---	---	18-27	1.25-1.35	0.6-2	0.12-0.14	0.0-2.9	2.0-4.0	.05	.20			
	12-19	---	---	15-27	1.30-1.40	0.6-6	0.07-0.10	0.0-2.9	0.5-1.0	.10	.28			
	19-22	---	---	---	---	0.0000-0.06	---	---	---	---	---			
Rock outcrop-----	0-60	---	---	---	---	0.0000-0.06	0.00-0.00	---	---	---	---	-	8	0
343: Telluride-----	0-1	---	---	18-27	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	1	8	0
	1-7	---	---	18-27	1.25-1.35	0.6-2	0.12-0.14	0.0-2.9	2.0-5.0	.05	.20			
	7-12	---	---	18-27	1.25-1.35	0.6-2	0.12-0.14	0.0-2.9	2.0-4.0	.05	.20			
	12-19	---	---	15-27	1.30-1.40	0.6-6	0.07-0.10	0.0-2.9	0.5-1.0	.10	.28			
	19-22	---	---	---	---	0.06-0.2	---	---	---	---	---			

Table 24.--Physical properties of the soils--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Permea- bility (Ksat)	Available water capacity	Linear extensi- bility	Organic matter	Erosion factors			Wind erodi- bility group	Wind erodi- bility index
										Kw	Kf	T		
	In.	Pct.	Pct.	Pct.	g/cc	In./hr.	In./in.	Pct.	Pct.					
343: Rock outcrop-----	0-60	---	---	---	---	0.0000-0.06	0.00-0.00	---	---	---	---	-	8	0
345: Papaspila-----	0-4	---	---	20-27	1.25-1.35	0.6-2	0.15-0.17	0.0-2.9	2.0-4.0	.24	.24	5	6	48
	4-18	---	---	20-27	1.25-1.35	0.6-2	0.15-0.17	0.0-2.9	2.0-4.0	.24	.24			
	18-25	---	---	20-27	1.25-1.35	0.6-2	0.10-0.12	0.0-2.9	1.0-3.0	.15	.28			
	25-33	---	---	20-27	1.15-1.25	0.6-2	0.08-0.10	0.0-2.9	0.5-3.0	.15	.37			
	33-39	---	---	27-35	1.25-1.35	0.2-0.6	0.05-0.07	0.0-2.9	0.5-2.0	.05	.24			
	39-54	---	---	25-35	1.25-1.35	0.2-0.6	0.05-0.07	0.0-2.9	0.5-2.0	.05	.24			
	54-60	---	---	27-35	1.25-1.35	0.2-0.6	0.05-0.07	0.0-2.9	0.5-1.0	.05	.24			
350: Flygare-----	0-1	---	---	18-27	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	5	6	48
	1-5	---	---	18-27	1.25-1.35	0.6-2	0.12-0.14	0.0-2.9	2.0-4.0	.15	.24			
	5-9	---	---	18-27	1.25-1.35	0.6-2	0.11-0.14	0.0-2.9	2.0-4.0	.15	.24			
	9-18	---	---	18-27	1.35-1.45	0.6-2	0.05-0.08	0.0-2.9	1.0-3.0	.05	.28			
	18-23	---	---	18-27	1.35-1.45	0.6-2	0.05-0.08	0.0-2.9	1.0-3.0	.05	.28			
	23-28	---	---	18-27	1.35-1.40	0.6-2	0.06-0.09	0.0-2.9	1.0-2.0	.10	.28			
	28-38	---	---	27-35	1.35-1.40	0.2-0.6	0.08-0.11	0.0-2.9	0.5-1.0	.05	.20			
	38-47	---	---	27-35	1.35-1.45	0.2-0.6	0.05-0.08	0.0-2.9	0.0-0.5	.05	.24			
	47-55	---	---	27-35	1.35-1.45	0.2-0.6	0.05-0.08	0.0-2.9	0.0-0.5	.05	.24			
	55-61	---	---	27-35	1.35-1.45	0.2-0.6	0.05-0.08	0.0-2.9	0.0-0.5	.05	.24			
Foidel-----	0-6	---	---	18-27	1.25-1.35	0.6-2	0.13-0.16	0.0-2.9	2.0-4.0	.24	.24	5	6	48
	6-17	---	---	18-27	1.25-1.35	0.6-2	0.13-0.16	0.0-2.9	2.0-4.0	.24	.24			
	17-26	---	---	18-27	1.25-1.35	0.6-2	0.13-0.16	0.0-2.9	2.0-4.0	.24	.24			
	26-32	---	---	18-27	1.25-1.35	0.6-2	0.13-0.16	0.0-2.9	2.0-4.0	.24	.24			
	32-38	---	---	18-27	1.30-1.40	0.6-2	0.10-0.13	0.0-2.9	0.5-1.0	.20	.37			
	38-45	---	---	18-35	1.30-1.40	0.6-2	0.13-0.19	0.0-2.9	0.5-1.0	.37	.37			
	45-56	---	---	20-35	1.30-1.40	0.2-0.6	0.14-0.19	0.0-2.9	0.0-0.5	.15	.28			
	56-60	---	---	20-35	1.30-1.40	0.2-0.6	0.14-0.19	0.0-2.9	0.0-0.5	.15	.28			
355: Flygare-----	0-1	---	---	18-27	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	5	6	48
	1-5	---	---	18-27	1.25-1.35	0.6-2	0.12-0.14	0.0-2.9	2.0-4.0	.15	.24			
	5-9	---	---	18-27	1.25-1.35	0.6-2	0.11-0.14	0.0-2.9	2.0-4.0	.15	.24			
	9-16	---	---	18-27	1.35-1.45	0.6-2	0.05-0.08	0.0-2.9	1.0-3.0	.05	.28			
	16-23	---	---	18-27	1.35-1.45	0.6-2	0.05-0.08	0.0-2.9	1.0-3.0	.05	.28			
	23-28	---	---	18-27	1.35-1.40	0.6-2	0.06-0.09	0.0-2.9	1.0-2.0	.10	.28			
	28-38	---	---	27-35	1.35-1.40	0.2-0.6	0.08-0.11	0.0-2.9	0.5-1.0	.05	.20			
	38-47	---	---	27-35	1.35-1.45	0.2-0.6	0.05-0.08	0.0-2.9	0.0-0.5	.05	.24			
	47-55	---	---	27-35	1.35-1.45	0.2-0.6	0.05-0.08	0.0-2.9	0.0-0.5	.05	.24			
	55-61	---	---	27-35	1.35-1.45	0.2-0.6	0.05-0.08	0.0-2.9	0.0-0.5	.05	.24			
Foidel-----	0-6	---	---	18-27	1.25-1.35	0.6-2	0.13-0.16	0.0-2.9	2.0-4.0	.24	.24	5	6	48
	6-17	---	---	18-27	1.25-1.35	0.6-2	0.13-0.16	0.0-2.9	2.0-4.0	.24	.24			
	17-26	---	---	18-27	1.25-1.35	0.6-2	0.13-0.16	0.0-2.9	2.0-4.0	.24	.24			
	26-32	---	---	18-27	1.25-1.35	0.6-2	0.13-0.16	0.0-2.9	2.0-4.0	.24	.24			
	32-38	---	---	18-27	1.30-1.40	0.6-2	0.10-0.13	0.0-2.9	0.5-1.0	.20	.37			
	38-45	---	---	18-35	1.30-1.40	0.6-2	0.13-0.19	0.0-2.9	0.5-1.0	.37	.37			
	45-56	---	---	20-35	1.30-1.40	0.2-0.6	0.14-0.19	0.0-2.9	0.0-0.5	.15	.28			
	56-60	---	---	20-35	1.30-1.40	0.2-0.6	0.14-0.19	0.0-2.9	0.0-0.5	.15	.28			
360: Blacksnag-----	0-3	---	---	18-27	1.25-1.40	0.6-2	0.08-0.11	0.0-2.9	0.5-1.0	.15	.37	5	8	0
	3-8	---	---	18-27	1.25-1.40	0.6-2	0.08-0.11	0.0-2.9	0.5-1.0	.15	.37			
	8-16	---	---	18-35	1.25-1.35	0.2-0.6	0.04-0.06	0.0-2.9	0.0-0.5	.05	.43			
	16-28	---	---	18-35	1.25-1.35	0.2-0.6	0.04-0.06	0.0-2.9	0.0-0.5	.05	.43			
	28-36	---	---	15-35	1.30-1.45	0.6-2	0.06-0.09	0.0-2.9	0.0-0.5	.10	.32			
	36-49	---	---	20-35	1.30-1.45	0.6-2	0.06-0.09	0.0-2.9	0.0-0.5	.10	.32			
	49-60	---	---	20-35	1.30-1.45	0.6-2	0.06-0.09	0.0-2.9	0.0-0.5	.10	.32			
Peeler-----	0-2	---	---	15-25	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	5	5	56
	2-5	---	---	15-25	1.15-1.25	0.6-2	0.14-0.18	0.0-2.9	1.0-3.0	.43	.43			
	5-10	---	---	15-25	1.15-1.25	0.6-2	0.14-0.18	0.0-2.9	1.0-3.0	.43	.43			
	10-18	---	---	15-27	1.25-1.35	0.6-2	0.13-0.16	0.0-2.9	0.5-1.0	.37	.37			
	18-24	---	---	15-27	1.25-1.35	0.6-2	0.10-0.13	0.0-2.9	0.5-1.0	.20	.37			
	24-35	---	---	18-35	1.25-1.35	0.6-2	0.12-0.18	0.0-2.9	0.0-0.5	.24	.43			
	35-44	---	---	18-35	1.25-1.35	0.6-2	0.14-0.18	0.0-2.9	0.0-0.5	.28	.28			
	44-62	---	---	18-35	1.25-1.35	0.6-2	0.14-0.18	0.0-2.9	0.0-0.5	.28	.28			
361: Blacksnag-----	0-3	---	---	18-27	1.25-1.40	0.6-2	0.08-0.11	0.0-2.9	0.5-1.0	.15	.37	5	8	0
	3-8	---	---	18-27	1.25-1.40	0.6-2	0.08-0.11	0.0-2.9	0.5-1.0	.15	.37			
	8-16	---	---	18-35	1.25-1.35	0.2-0.6	0.04-0.06	0.0-2.9	0.0-0.5	.05	.43			
	16-28	---	---	18-35	1.25-1.35	0.2-0.6	0.04-0.06	0.0-2.9	0.0-0.5	.05	.43			
	28-36	---	---	15-35	1.30-1.45	0.6-2	0.06-0.09	0.0-2.9	0.0-0.5	.10	.32			
	36-49	---	---	20-35	1.30-1.45	0.6-2	0.06-0.09	0.0-2.9	0.0-0.5	.10	.32			
	49-60	---	---	20-35	1.30-1.45	0.6-2	0.06-0.09	0.0-2.9	0.0-0.5	.10	.32			

Table 24.--Physical properties of the soils--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Permea- bility (Ksat)	Available water capacity	Linear extensi- bility	Organic matter	Erosion factors			Wind erodi- bility group	Wind erodi- bility index
										Kw	Kf	T		
	In.	Pct.	Pct.	Pct.	g/cc	In./hr.	In./in.	Pct.	Pct.					
361: Peeler-----	0-2	---	---	15-25	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	5	5	56
	2-5	---	---	15-25	1.15-1.25	0.6-2	0.14-0.18	0.0-2.9	1.0-3.0	.43	.43			
	5-10	---	---	15-25	1.15-1.25	0.6-2	0.14-0.18	0.0-2.9	1.0-3.0	.43	.43			
	10-18	---	---	15-27	1.25-1.35	0.6-2	0.13-0.16	0.0-2.9	0.5-1.0	.37	.37			
	18-24	---	---	15-27	1.25-1.35	0.6-2	0.10-0.13	0.0-2.9	0.5-1.0	.20	.37			
	24-35	---	---	18-35	1.25-1.35	0.6-2	0.12-0.18	0.0-2.9	0.0-0.5	.24	.43			
	35-44	---	---	18-35	1.25-1.35	0.6-2	0.14-0.18	0.0-2.9	0.0-0.5	.28	.28			
	44-62	---	---	18-35	1.25-1.35	0.6-2	0.14-0.18	0.0-2.9	0.0-0.5	.28	.28			
374: Mavreeso-----	0-5	---	---	18-27	1.25-1.40	0.6-2	0.14-0.18	0.0-2.9	2.0-4.0	.28	.28	5	4L	86
	5-10	---	---	18-27	1.25-1.40	0.6-2	0.14-0.18	0.0-2.9	2.0-4.0	.28	.28			
	10-18	---	---	18-27	1.25-1.40	0.6-2	0.14-0.18	0.0-2.9	1.0-2.0	.37	.37			
	18-28	---	---	18-27	1.25-1.40	0.6-2	0.13-0.16	0.0-2.9	0.5-1.0	.24	.43			
	28-42	---	---	18-27	1.25-1.40	0.6-2	0.14-0.17	0.0-2.9	0.0-0.5	.37	.37			
	42-50	---	---	15-27	1.25-1.40	0.6-2	0.10-0.14	0.0-2.9	0.0-0.5	.24	.43			
	50-60	---	---	18-27	1.25-1.40	0.6-2	0.14-0.18	0.0-2.9	0.0-0.5	.43	.43			
Valto-----	0-2	---	---	5-18	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	1	8	0
	2-4	---	---	5-18	1.35-1.45	2-6	0.06-0.08	0.0-2.9	0.5-1.0	.10	.28			
	4-14	---	---	5-18	1.35-1.45	2-6	0.04-0.08	0.0-2.9	0.0-1.0	.10	.28			
	14-18	---	---	---	---	0.0000-0.06	---	---	---	---	---			
Rock outcrop-----	0-60	---	---	---	---	0.0000-0.06	0.00-0.00	---	---	---	---	-	8	0
375: Needleton-----	0-2	---	---	10-27	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	5	5	56
	2-16	---	---	10-27	1.30-1.45	0.6-2	0.09-0.12	0.0-2.9	0.5-1.0	.20	.37			
	16-26	---	---	15-30	1.30-1.40	0.6-2	0.07-0.10	0.0-2.9	0.5-1.0	.10	.20			
	26-48	---	---	18-35	1.30-1.40	0.2-0.6	0.05-0.08	0.0-2.9	0.0-0.5	.10	.24			
	48-62	---	---	27-35	1.30-1.40	0.2-0.6	0.05-0.08	0.0-2.9	0.0-0.5	.10	.24			
Snowdon-----	0-2	---	---	10-27	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	1	5	56
	2-6	---	---	10-27	1.30-1.40	0.6-2	0.12-0.16	0.0-2.9	1.0-3.0	.28	.28			
	6-13	---	---	10-20	1.35-1.45	2-6	0.06-0.08	0.0-2.9	0.0-0.5	.10	.32			
	13-20	---	---	18-35	1.25-1.45	0.6-2	0.05-0.10	0.0-2.9	0.0-0.5	.05	.24			
	20-22	---	---	---	---	0.0000-0.06	---	---	---	---	---			
376: Needleton-----	0-2	---	---	10-27	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	3	5	56
	2-16	---	---	10-27	1.30-1.40	0.6-2	0.12-0.16	0.0-2.9	0.5-1.0	.37	.37			
	16-26	---	---	15-30	1.30-1.40	0.6-2	0.07-0.10	0.0-2.9	0.5-1.0	.10	.20			
	26-48	---	---	18-35	1.30-1.40	0.2-0.6	0.05-0.08	0.0-2.9	0.0-0.5	.10	.24			
	48-62	---	---	27-35	1.30-1.40	0.2-0.6	0.05-0.08	0.0-2.9	0.0-0.5	.10	.24			
378: Needleton-----	0-2	---	---	10-27	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	3	5	56
	2-16	---	---	10-27	1.30-1.40	0.6-2	0.12-0.16	0.0-2.9	0.5-1.0	.37	.37			
	16-26	---	---	15-30	1.30-1.40	0.6-2	0.07-0.10	0.0-2.9	0.5-1.0	.10	.20			
	26-48	---	---	18-35	1.30-1.40	0.2-0.6	0.05-0.08	0.0-2.9	0.0-0.5	.10	.24			
	48-62	---	---	27-35	1.30-1.40	0.2-0.6	0.05-0.08	0.0-2.9	0.0-0.5	.10	.24			
Haviland-----	0-1	---	---	10-27	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	5	5	56
	1-6	---	---	10-27	1.30-1.40	0.6-2	0.13-0.18	0.0-2.9	1.0-3.0	.28	.28			
	6-19	---	---	10-27	1.30-1.40	0.6-2	0.13-0.18	0.0-2.9	1.0-3.0	.28	.28			
	19-33	---	---	18-35	1.30-1.40	0.2-2	0.15-0.19	3.0-5.9	0.0-1.0	.28	.28			
	33-61	---	---	20-35	1.35-1.45	0.2-0.6	0.12-0.18	0.0-2.9	0.0-0.5	.15	.28			
380: Snowdon-----	0-2	---	---	10-27	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	1	5	56
	2-6	---	---	10-27	1.30-1.40	0.6-2	0.12-0.16	0.0-2.9	1.0-2.0	.28	.28			
	6-13	---	---	10-20	1.25-1.45	0.6-6	0.06-0.13	0.0-2.9	0.0-0.5	.10	.32			
	13-20	---	---	18-35	1.25-1.45	0.6-2	0.05-0.10	0.0-2.9	0.0-0.5	.10	.24			
	20-24	---	---	---	---	0.0000-0.06	---	---	---	---	---			
Rock outcrop-----	0-60	---	---	---	---	0.0000-0.06	0.00-0.00	---	---	---	---	-	8	0
381: Needleton-----	0-2	---	---	10-27	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	5	5	56
	2-16	---	---	10-27	1.30-1.45	0.6-2	0.09-0.12	0.0-2.9	0.5-1.0	.20	.37			
	16-26	---	---	15-30	1.30-1.40	0.6-2	0.07-0.10	0.0-2.9	0.5-1.0	.10	.20			
	26-48	---	---	18-35	1.30-1.40	0.2-0.6	0.05-0.08	0.0-2.9	0.0-0.5	.10	.24			
	48-62	---	---	27-35	1.30-1.40	0.2-0.6	0.05-0.08	0.0-2.9	0.0-0.5	.10	.24			
Snowdon-----	0-2	---	---	10-27	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	1	8	0
	2-6	---	---	10-27	1.30-1.40	0.6-2	0.07-0.09	0.0-2.9	1.0-2.0	.10	.28			
	6-13	---	---	10-20	1.35-1.45	2-6	0.06-0.08	0.0-2.9	0.0-0.5	.10	.32			
	13-20	---	---	18-35	1.25-1.45	0.6-2	0.05-0.10	0.0-2.9	0.0-0.5	.05	.24			
	20-24	---	---	---	---	0.0000-0.06	---	---	---	---	---			
Rock outcrop-----	0-60	---	---	---	---	0.0000-0.06	0.00-0.00	---	---	---	---	-	8	0

Table 24.--Physical properties of the soils--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Permea- bility (Ksat)	Available water capacity	Linear extensi- bility	Organic matter	Erosion factors			Wind erodi- bility group	Wind erodi- bility index
										Kw	Kf	T		
	In.	Pct.	Pct.	Pct.	g/cc	In./hr.	In./in.	Pct.	Pct.					
382: Needleton-----	0-2	---	---	10-27	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	5	5	56
	2-16	---	---	10-27	1.30-1.45	0.6-2	0.09-0.12	0.0-2.9	0.5-1.0	.20	.37			
	16-26	---	---	15-30	1.30-1.40	0.6-2	0.07-0.10	0.0-2.9	0.5-1.0	.10	.20			
	26-48	---	---	18-35	1.30-1.40	0.2-0.6	0.05-0.08	0.0-2.9	0.0-0.5	.10	.24			
	48-62	---	---	27-35	1.30-1.40	0.2-0.6	0.05-0.08	0.0-2.9	0.0-0.5	.10	.24			
Snowdon-----	0-2	---	---	10-27	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	1	8	0
	2-6	---	---	10-27	1.30-1.40	0.6-2	0.07-0.09	0.0-2.9	1.0-2.0	.10	.28			
	6-13	---	---	10-20	1.35-1.45	2-6	0.06-0.08	0.0-2.9	0.0-0.5	.10	.32			
	13-20	---	---	18-35	1.25-1.45	0.6-2	0.05-0.10	0.0-2.9	0.0-0.5	.05	.24			
	20-24	---	---	---	---	0.0000-0.06	---	---	---	---	---			
383: Haviland-----	0-1	---	---	10-27	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	5	5	56
	1-6	---	---	10-27	1.30-1.40	0.6-2	0.13-0.18	0.0-2.9	1.0-3.0	.28	.28			
	6-19	---	---	10-27	1.30-1.40	0.6-2	0.13-0.18	0.0-2.9	1.0-3.0	.28	.28			
	19-33	---	---	18-35	1.30-1.40	0.2-2	0.15-0.19	3.0-5.9	0.0-1.0	.28	.28			
	33-61	---	---	20-35	1.35-1.45	0.2-0.6	0.12-0.18	0.0-2.9	0.0-0.5	.15	.28			
Needleton-----	0-2	---	---	10-27	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	3	5	56
	2-16	---	---	10-27	1.30-1.45	0.6-2	0.09-0.12	0.0-2.9	0.5-1.0	.20	.37			
	16-26	---	---	15-30	1.30-1.40	0.6-2	0.07-0.10	0.0-2.9	0.5-1.0	.10	.20			
	26-48	---	---	18-35	1.30-1.40	0.2-0.6	0.05-0.08	0.0-2.9	0.0-0.5	.10	.24			
	48-62	---	---	27-35	1.30-1.40	0.2-0.6	0.05-0.08	0.0-2.9	0.0-0.5	.10	.24			
386: Needleton-----	0-2	---	---	10-27	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	5	5	56
	2-16	---	---	10-27	1.30-1.45	0.6-2	0.09-0.12	0.0-2.9	0.5-1.0	.20	.37			
	16-26	---	---	15-30	1.30-1.40	0.6-2	0.07-0.10	0.0-2.9	0.5-1.0	.10	.20			
	26-48	---	---	18-35	1.30-1.40	0.2-0.6	0.05-0.08	0.0-2.9	0.0-0.5	.10	.24			
	48-62	---	---	27-35	1.30-1.40	0.2-0.6	0.05-0.08	0.0-2.9	0.0-0.5	.10	.24			
387: Frisco-----	0-2	---	---	15-27	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	3	6	48
	2-5	---	---	15-27	1.30-1.35	0.6-2	0.10-0.14	0.0-2.9	1.0-2.0	.20	.37			
	5-11	---	---	15-27	1.30-1.35	0.6-2	0.10-0.14	0.0-2.9	0.5-1.0	.20	.37			
	11-19	---	---	15-27	1.35-1.45	0.6-2	0.10-0.14	0.0-2.9	0.5-1.0	.20	.37			
	19-48	---	---	18-35	1.35-1.45	0.6-2	0.06-0.11	0.0-2.9	0.0-0.5	.05	.43			
	48-62	---	---	18-27	1.35-1.40	0.6-2	0.06-0.11	0.0-2.9	0.0-0.5	.05	.43			
Quazar-----	0-12	---	---	15-27	1.30-1.35	0.6-2	0.07-0.09	0.0-2.9	2.0-4.0	.10	.24	5	8	0
	12-26	---	---	20-35	1.30-1.40	0.6-2	0.04-0.06	0.0-2.9	0.5-1.0	.02	.20			
	26-60	---	---	27-35	1.30-1.40	0.6-2	0.04-0.06	0.0-2.9	0.0-0.5	.02	.20			
388: Frisco-----	0-2	---	---	15-27	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	3	6	48
	2-5	---	---	15-27	1.30-1.35	0.6-2	0.10-0.14	0.0-2.9	1.0-2.0	.20	.37			
	5-11	---	---	15-27	1.30-1.35	0.6-2	0.10-0.14	0.0-2.9	0.5-1.0	.20	.37			
	11-19	---	---	15-27	1.35-1.45	0.6-2	0.10-0.14	0.0-2.9	0.5-1.0	.20	.37			
	19-48	---	---	18-35	1.35-1.45	0.6-2	0.06-0.11	0.0-2.9	0.0-0.5	.05	.43			
	48-62	---	---	18-27	1.35-1.40	0.6-2	0.06-0.11	0.0-2.9	0.0-0.5	.05	.43			
Quazar-----	0-12	---	---	15-27	1.30-1.35	0.6-2	0.07-0.09	0.0-2.9	2.0-4.0	.10	.24	5	8	0
	12-26	---	---	20-35	1.30-1.40	0.6-2	0.04-0.06	0.0-2.9	0.5-1.0	.02	.20			
	26-60	---	---	27-35	1.30-1.40	0.6-2	0.04-0.06	0.0-2.9	0.0-0.5	.02	.20			
389: Seitz-----	0-2	---	---	10-27	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	5	5	56
	2-4	---	---	10-27	1.25-1.40	2-6	0.09-0.12	0.0-2.9	0.5-1.0	.20	.37			
	4-11	---	---	10-27	1.25-1.40	2-6	0.07-0.09	0.0-2.9	0.5-1.0	.15	.37			
	11-18	---	---	15-40	1.25-1.40	0.2-0.6	0.07-0.11	0.0-2.9	0.5-1.0	.15	.28			
	18-42	---	---	35-50	1.30-1.40	0.06-0.2	0.07-0.12	3.0-5.9	0.0-0.5	.10	.28			
	42-62	---	---	27-40	1.30-1.40	0.2-0.6	0.07-0.11	0.0-2.9	0.0-0.5	.05	.28			
390: Clayburn-----	0-5	---	---	15-25	1.25-1.40	0.6-2	0.14-0.17	0.0-2.9	2.0-4.0	.24	.24	5	5	56
	5-13	---	---	15-25	1.25-1.40	0.6-2	0.14-0.17	0.0-2.9	2.0-4.0	.24	.24			
	13-18	---	---	18-35	1.30-1.40	0.2-0.6	0.16-0.18	0.0-2.9	1.0-2.0	.20	.20			
	18-36	---	---	18-35	1.30-1.40	0.2-0.6	0.16-0.18	0.0-2.9	1.0-2.0	.20	.20			
	36-48	---	---	18-35	1.30-1.40	0.2-0.6	0.16-0.18	0.0-2.9	1.0-2.0	.20	.20			
	48-60	---	---	15-30	1.25-1.35	0.6-2	0.13-0.16	0.0-2.9	0.5-1.0	.20	.20			
Heisspitz-----	0-9	---	---	18-27	1.30-1.40	0.6-2	0.15-0.18	0.0-2.9	2.0-4.0	.24	.24	1	6	48
	9-14	---	---	18-35	1.30-1.40	0.6-2	0.15-0.21	0.0-2.9	1.0-3.0	.28	.28			
	14-18	---	---	---	---	0.0000-0.06	---	---	---	---	---			
391: Runlett-----	0-14	---	---	15-27	1.25-1.35	0.6-2	0.16-0.18	0.0-2.9	2.0-4.0	.24	.24	2	6	48
	14-19	---	---	15-27	1.25-1.35	0.6-2	0.16-0.18	0.0-2.9	2.0-4.0	.24	.24			
	19-22	---	---	35-40	1.25-1.35	0.06-0.2	0.12-0.16	3.0-5.9	0.5-1.0	.24	.24			
	22-27	---	---	35-50	1.25-1.35	0.06-0.2	0.12-0.16	6.0-8.9	0.0-0.5	.28	.28			
	27-31	---	---	---	---	0.0000-0.06	---	---	---	---	---			

Table 24.--Physical properties of the soils--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Permea- bility (Ksat)	Available water capacity	Linear extensi- bility	Organic matter	Erosion factors			Wind erodi- bility group	Wind erodi- bility index
										Kw	Kf	T		
	In.	Pct.	Pct.	Pct.	g/cc	In./hr.	In./in.	Pct.	Pct.					
391: Sessions-----	0-3	---	---	15-27	1.20-1.30	0.6-2	0.16-0.18	0.0-2.9	2.0-5.0	.20	.20	4	6	48
	3-11	---	---	15-27	1.20-1.30	0.6-2	0.16-0.18	0.0-2.9	2.0-5.0	.20	.20			
	11-19	---	---	30-40	1.30-1.40	0.06-0.2	0.16-0.20	3.0-5.9	1.0-3.0	.20	.20			
	19-34	---	---	35-45	1.20-1.30	0.06-0.2	0.14-0.17	3.0-5.9	0.5-1.0	.24	.24			
	34-48	---	---	35-45	1.20-1.30	0.06-0.2	0.14-0.17	3.0-5.9	0.5-1.0	.24	.24			
	48-60	---	---	20-35	1.20-1.30	0.2-0.6	0.12-0.14	0.0-2.9	0.0-0.5	.15	.24			
392: Runlett-----	0-14	---	---	15-27	1.25-1.35	0.6-2	0.16-0.18	0.0-2.9	2.0-4.0	.24	.24	2	6	48
	14-19	---	---	15-27	1.25-1.35	0.6-2	0.16-0.18	0.0-2.9	2.0-4.0	.24	.24			
	19-22	---	---	35-40	1.25-1.35	0.06-0.2	0.12-0.16	3.0-5.9	0.5-1.0	.24	.24			
	22-27	---	---	35-50	1.25-1.35	0.06-0.2	0.12-0.16	6.0-8.9	0.0-0.5	.28	.28			
	27-31	---	---	---	---	0.0000-0.06	---	---	---	---	---			
Needleton-----	0-2	---	---	10-27	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	3	5	56
	2-16	---	---	10-27	1.30-1.40	0.6-2	0.12-0.16	0.0-2.9	0.5-1.0	.37	.37			
	16-26	---	---	15-30	1.30-1.40	0.6-2	0.07-0.10	0.0-2.9	0.5-1.0	.10	.20			
	26-48	---	---	18-35	1.30-1.40	0.2-0.6	0.05-0.08	0.0-2.9	0.0-0.5	.10	.24			
	48-62	---	---	27-35	1.30-1.40	0.2-0.6	0.05-0.08	0.0-2.9	0.0-0.5	.10	.24			
Sessions-----	0-3	---	---	15-27	1.20-1.30	0.6-2	0.16-0.18	0.0-2.9	2.0-5.0	.20	.20	4	6	48
	3-11	---	---	15-27	1.20-1.30	0.6-2	0.16-0.18	0.0-2.9	2.0-5.0	.20	.20			
	11-19	---	---	30-40	1.30-1.40	0.06-0.2	0.16-0.20	3.0-5.9	1.0-3.0	.20	.20			
	19-34	---	---	35-45	1.20-1.30	0.06-0.2	0.14-0.17	3.0-5.9	0.5-1.0	.24	.24			
	34-48	---	---	35-45	1.20-1.30	0.06-0.2	0.14-0.17	3.0-5.9	0.5-1.0	.24	.24			
	48-60	---	---	20-35	1.20-1.30	0.2-0.6	0.12-0.14	0.0-2.9	0.0-0.5	.15	.24			
393: Heisspitz-----	0-9	---	---	18-27	1.30-1.40	0.6-2	0.15-0.18	0.0-2.9	2.0-4.0	.24	.24	1	6	48
	9-14	---	---	18-35	1.30-1.40	0.6-2	0.15-0.21	0.0-2.9	1.0-3.0	.28	.28			
	14-18	---	---	---	---	0.0000-0.06	---	---	---	---	---			
Sessions-----	0-3	---	---	15-27	1.20-1.30	0.6-2	0.16-0.18	0.0-2.9	2.0-5.0	.20	.20	4	6	48
	3-11	---	---	15-27	1.20-1.30	0.6-2	0.16-0.18	0.0-2.9	2.0-5.0	.20	.20			
	11-19	---	---	30-40	1.30-1.40	0.06-0.2	0.16-0.20	3.0-5.9	1.0-3.0	.20	.20			
	19-34	---	---	35-45	1.20-1.30	0.06-0.2	0.14-0.17	3.0-5.9	0.5-1.0	.24	.24			
	34-48	---	---	35-45	1.20-1.30	0.06-0.2	0.14-0.17	3.0-5.9	0.5-1.0	.24	.24			
	48-60	---	---	20-35	1.20-1.30	0.2-0.6	0.12-0.14	0.0-2.9	0.0-0.5	.15	.24			
Rock outcrop-----	0-60	---	---	---	---	0.0000-0.06	0.00-0.00	---	---	---	---	-	8	0
394: Clayburn-----	0-5	---	---	15-25	1.25-1.40	0.6-2	0.14-0.17	0.0-2.9	2.0-4.0	.24	.24	5	5	56
	5-13	---	---	15-25	1.25-1.40	0.6-2	0.14-0.17	0.0-2.9	2.0-4.0	.24	.24			
	13-18	---	---	18-35	1.30-1.40	0.2-0.6	0.16-0.18	0.0-2.9	1.0-2.0	.20	.20			
	18-36	---	---	18-35	1.30-1.40	0.2-0.6	0.16-0.18	0.0-2.9	1.0-2.0	.20	.20			
	36-48	---	---	18-35	1.30-1.40	0.2-0.6	0.16-0.18	0.0-2.9	1.0-2.0	.20	.20			
	48-60	---	---	15-30	1.25-1.35	0.6-2	0.13-0.16	0.0-2.9	0.5-1.0	.20	.20			
Heisspitz-----	0-9	---	---	18-27	1.30-1.40	0.6-2	0.15-0.18	0.0-2.9	2.0-4.0	.24	.24	1	6	48
	9-14	---	---	18-35	1.30-1.40	0.6-2	0.15-0.21	0.0-2.9	1.0-3.0	.28	.28			
	14-18	---	---	---	---	0.0000-0.06	---	---	---	---	---			
395: Scout-----	0-1	---	---	10-15	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	5	5	56
	1-2	---	---	10-15	1.15-1.30	2-6	0.14-0.18	0.0-2.9	1.0-3.0	.37	.37			
	2-9	---	---	15-20	1.30-1.40	2-6	0.07-0.10	0.0-2.9	0.5-1.0	.15	.37			
	9-17	---	---	10-18	1.30-1.40	2-6	0.07-0.09	0.0-2.9	0.5-1.0	.15	.37			
	17-61	---	---	8-18	1.30-1.40	2-6	0.07-0.09	0.0-2.9	0.0-0.5	.15	.43			
396: Scout-----	0-1	---	---	10-15	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	5	5	56
	1-2	---	---	10-15	1.15-1.30	2-6	0.14-0.18	0.0-2.9	1.0-3.0	.37	.37			
	2-9	---	---	15-20	1.30-1.40	2-6	0.07-0.10	0.0-2.9	0.5-1.0	.15	.37			
	9-17	---	---	10-18	1.30-1.40	2-6	0.07-0.09	0.0-2.9	0.5-1.0	.15	.37			
	17-61	---	---	8-18	1.30-1.40	2-6	0.07-0.09	0.0-2.9	0.0-0.5	.15	.43			
399: Kite-----	0-1	---	---	10-20	1.25-1.40	0.6-6	0.10-0.16	0.0-2.9	1.0-3.0	.20	.20	1	5	56
	1-4	---	---	10-20	1.40-1.45	0.6-6	0.10-0.16	0.0-2.9	1.0-3.0	.20	.20			
	4-9	---	---	20-27	1.30-1.40	0.6-2	0.14-0.16	0.0-2.9	1.0-2.0	.15	.15			
	9-14	---	---	15-20	1.40-1.45	2-6	0.09-0.12	0.0-2.9	0.0-0.5	.17	.32			
	14-18	---	---	15-20	1.40-1.45	2-6	0.09-0.12	0.0-2.9	0.0-0.5	.17	.32			
	18-22	---	---	---	---	0.0000-0.06	---	---	---	---	---			
Rock outcrop-----	0-60	---	---	---	---	0.0000-0.06	0.00-0.00	---	---	---	---	-	8	0
450: Lostlake-----	0-2	---	---	10-27	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	1	5	56
	2-6	---	---	10-27	1.25-1.40	0.6-2	0.13-0.16	0.0-2.9	1.0-2.0	.28	.28			
	6-15	---	---	20-27	1.25-1.40	0.6-2	0.10-0.13	0.0-2.9	0.5-1.0	.20	.28			
	15-19	---	---	---	---	0.0000-0.06	---	---	---	---	---			

Table 24.--Physical properties of the soils--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Permea- bility (Ksat)	Available water capacity	Linear extensi- bility	Organic matter	Erosion factors			Wind erodi- bility group	Wind erodi- bility index
										Kw	Kf	T		
450: Rock outcrop-----	0-60	---	---	---	---	0.0000-0.06	0.00-0.00	---	---	---	---	-	8	0
452: Dystrocryepts-----	0-1	---	---	20-27	1.30-1.40	0.6-2	0.10-0.13	0.0-2.9	1.0-2.0	.10	.17	2	5	56
	1-9	---	---	20-27	1.30-1.40	0.6-2	0.10-0.13	0.0-2.9	1.0-2.0	.10	.17			
	9-17	---	---	20-27	1.30-1.40	0.6-2	0.10-0.13	0.0-2.9	0.5-1.0	.10	.17			
	17-21	---	---	---	---	0.0000-0.06	---	---	---	---	---			
Rock outcrop-----	0-60	---	---	---	---	0.0000-0.06	0.00-0.00	---	---	---	---	-	8	0
453: Sig-----	0-2	---	---	10-27	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	1	5	56
	2-9	---	---	10-27	1.35-1.40	0.6-2	0.10-0.12	0.0-2.9	0.5-1.0	.20	.37			
	9-16	---	---	18-27	1.35-1.45	0.6-2	0.07-0.09	0.0-2.9	0.0-1.0	.10	.28			
	16-20	---	---	---	---	0.0000-0.06	---	---	---	---	---			
Rock outcrop-----	0-60	---	---	---	---	0.0000-0.06	0.00-0.00	---	---	---	---	-	8	0
Snowdon-----	0-2	---	---	10-27	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	1	8	0
	2-6	---	---	10-27	1.30-1.40	0.6-2	0.05-0.07	0.0-2.9	1.0-2.0	.05	.28			
	6-13	---	---	10-20	1.35-1.45	2-6	0.06-0.08	0.0-2.9	0.0-0.5	.10	.32			
	13-20	---	---	18-35	1.25-1.45	0.6-2	0.05-0.10	0.0-2.9	0.0-0.5	.05	.24			
	20-24	---	---	---	---	0.0000-0.06	---	---	---	---	---			
454: Snowdon-----	0-2	---	---	10-27	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	1	8	0
	2-6	---	---	10-27	1.30-1.40	0.6-2	0.07-0.09	0.0-2.9	1.0-2.0	.10	.28			
	6-13	---	---	10-20	1.35-1.45	2-6	0.06-0.08	0.0-2.9	0.0-0.5	.10	.32			
	13-20	---	---	18-35	1.25-1.45	0.6-2	0.05-0.10	0.0-2.9	0.0-0.5	.05	.24			
	20-24	---	---	---	---	0.0000-0.06	---	---	---	---	---			
Sig-----	0-2	---	---	10-27	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	1	5	56
	2-9	---	---	10-27	1.35-1.40	0.6-2	0.10-0.12	0.0-2.9	0.5-1.0	.20	.37			
	9-16	---	---	18-27	1.35-1.45	0.6-2	0.07-0.09	0.0-2.9	0.0-1.0	.10	.28			
	16-20	---	---	---	---	0.0000-0.06	---	---	---	---	---			
Rock outcrop-----	0-60	---	---	---	---	0.0000-0.06	0.00-0.00	---	---	---	---	-	8	0
493: Badland-----	0-60	---	---	0-0	---	0.06-0.2	0.00-0.00	---	---	---	---	-	8	0
494: Pits, gravel-----	0-60	---	---	0-15	---	2-101	0.03-0.07	0.0-2.9	0.0-0.0	---	---	-	---	---
495: Riverwash-----	0-6	---	---	0-1	---	6-20	0.03-0.04	0.0-2.9	0.0-0.1	---	---	-	8	0
	6-60	---	---	0-1	---	6-20	0.02-0.03	0.0-2.9	---	---	---			
496: Rock outcrop-----	0-60	---	---	---	---	0.0000-0.06	0.00-0.00	---	---	---	---	-	8	0
497: Rubble land-----	0-60	---	---	0-0	1.70-2.35	20-101	0.00-0.10	0.0-2.9	0.0-0.1	---	---	-	8	0
498: Slickens-----	0-60	---	---	5-45	1.05-1.45	0.06-20	0.04-0.15	0.0-2.9	0.0-0.0	.28	.28	-	1	220
499: Water-----	---	---	---	---	---	---	---	---	---	---	---	-	---	---
500: Dolores-----	0-1	---	---	15-27	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	5	6	48
	1-3	---	---	15-27	1.25-1.35	0.6-2	0.13-0.16	0.0-2.9	2.0-4.0	.24	.24			
	3-8	---	---	15-27	1.25-1.35	0.6-2	0.13-0.16	0.0-2.9	2.0-4.0	.24	.24			
	8-10	---	---	35-40	1.30-1.40	0.06-0.2	0.06-0.07	0.0-2.9	0.5-1.0	.05	.24			
	10-15	---	---	35-40	1.30-1.40	0.06-0.2	0.06-0.07	0.0-2.9	0.5-1.0	.05	.24			
	15-24	---	---	35-40	1.30-1.40	0.06-0.2	0.06-0.07	0.0-2.9	0.5-1.0	.05	.24			
	24-45	---	---	35-55	1.20-1.30	0.06-0.2	0.05-0.06	0.0-2.9	0.0-0.5	.02	.17			
	45-49	---	---	40-55	1.20-1.30	0.06-0.2	0.05-0.06	0.0-2.9	0.0-0.5	.02	.17			
	49-61	---	---	27-45	1.15-1.35	0.06-0.2	0.05-0.06	0.0-2.9	0.0-0.5	.02	.17			
Fivepine-----	0-3	---	---	15-27	1.30-1.40	0.6-2	0.13-0.17	0.0-2.9	1.0-3.0	.15	.28	1	6	48
	3-9	---	---	27-40	1.20-1.30	0.2-0.6	0.11-0.13	3.0-5.9	1.0-2.0	.15	.24			
	9-12	---	---	35-50	1.20-1.30	0.06-0.6	0.11-0.13	3.0-5.9	0.0-1.0	.15	.24			
	12-15	---	---	40-50	1.15-1.30	0.06-0.2	0.08-0.10	3.0-5.9	0.0-0.5	.10	.17			
	15-19	---	---	---	---	0.0000-0.06	---	---	---	---	---			
501: Fivepine-----	0-3	---	---	15-27	1.30-1.40	0.6-2	0.13-0.17	0.0-2.9	1.0-3.0	.15	.28	1	6	48
	3-9	---	---	27-40	1.20-1.30	0.2-0.6	0.11-0.13	3.0-5.9	1.0-2.0	.15	.24			
	9-12	---	---	35-50	1.20-1.30	0.06-0.6	0.11-0.13	3.0-5.9	0.0-1.0	.15	.24			
	12-15	---	---	40-50	1.15-1.30	0.06-0.2	0.08-0.10	3.0-5.9	0.0-0.5	.10	.17			
	15-25	---	---	---	---	0.0000-0.06	---	---	---	---	---			

Table 24.--Physical properties of the soils--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Permea- bility (Ksat)	Available water capacity	Linear extensi- bility	Organic matter	Erosion factors			Wind erodi- bility group	Wind erodi- bility index
										Kw	Kf	T		
	In.	Pct.	Pct.	Pct.	g/cc	In./hr.	In./in.	Pct.	Pct.					
501: Nortez-----	0-3	---	---	15-27	1.30-1.40	0.6-2	0.15-0.18	0.0-2.9	1.0-3.0	.28	.28	2	6	48
	3-10	---	---	27-40	1.35-1.45	0.2-0.6	0.17-0.20	3.0-5.9	1.0-2.0	.20	.20			
	10-32	---	---	35-60	1.25-1.35	0.06-0.2	0.15-0.18	6.0-8.9	0.5-1.0	.24	.24			
	32-42	---	---	---	---	0.0000-0.06	---	---	---	---	---			
503: Ormiston-----	0-7	---	---	15-27	1.25-1.35	0.6-2	0.13-0.16	0.0-2.9	2.0-4.0	.24	.24	3	6	48
	7-24	---	---	35-60	1.35-1.40	0.06-0.2	0.07-0.11	3.0-5.9	0.0-1.0	.10	.28			
	24-32	---	---	35-60	1.35-1.40	0.06-0.2	0.07-0.11	3.0-5.9	0.0-1.0	.10	.28			
	32-44	---	---	27-40	1.30-1.40	0.2-0.6	0.13-0.16	3.0-5.9	0.0-0.5	.15	.28			
	44-54	---	---	---	---	0.0000-0.06	---	---	---	---	---			
Fivepine-----	0-3	---	---	15-27	1.30-1.40	0.6-2	0.13-0.17	0.0-2.9	1.0-3.0	.15	.28	1	6	48
	3-9	---	---	27-40	1.20-1.30	0.2-0.6	0.11-0.13	3.0-5.9	1.0-2.0	.15	.24			
	9-12	---	---	35-50	1.20-1.30	0.06-0.6	0.11-0.13	3.0-5.9	0.0-1.0	.15	.24			
	12-15	---	---	40-50	1.15-1.30	0.06-0.2	0.08-0.10	3.0-5.9	0.0-0.5	.10	.17			
	15-25	---	---	---	---	0.0000-0.06	---	---	---	---	---			
504: Jemco-----	0-2	---	---	15-27	1.20-1.30	0.6-2	0.16-0.18	0.0-2.9	1.0-3.0	.37	.37	2	6	48
	2-7	---	---	15-27	1.20-1.30	0.6-2	0.16-0.18	0.0-2.9	1.0-3.0	.37	.37			
	7-14	---	---	18-27	1.20-1.30	0.6-2	0.16-0.18	0.0-2.9	0.5-1.0	.43	.43			
	14-22	---	---	18-27	1.20-1.30	0.6-2	0.16-0.18	0.0-2.9	0.5-1.0	.43	.43			
	22-35	---	---	27-35	1.25-1.35	0.2-0.6	0.17-0.19	0.0-2.9	0.5-1.0	.28	.28			
	35-39	---	---	27-35	1.25-1.35	0.2-0.6	0.17-0.19	0.0-2.9	0.0-0.5	.28	.28			
	39-49	---	---	---	---	0.0000-0.06	---	---	---	---	---			
Detra-----	0-16	---	---	15-27	1.35-1.40	0.6-2	0.14-0.18	0.0-2.9	3.0-5.0	.20	.20	3	6	48
	16-30	---	---	15-27	1.35-1.40	0.6-2	0.14-0.18	0.0-2.9	3.0-5.0	.20	.20			
	30-43	---	---	18-35	1.30-1.40	0.2-2	0.14-0.20	0.0-2.9	2.0-4.0	.24	.24			
	43-51	---	---	18-35	1.30-1.40	0.2-2	0.14-0.20	0.0-2.9	2.0-4.0	.24	.24			
	51-57	---	---	27-35	1.25-1.35	0.2-0.6	0.16-0.19	3.0-5.9	0.5-1.0	.24	.24			
	57-61	---	---	---	---	0.0000-0.06	---	---	---	---	---			
Beje-----	0-2	---	---	15-27	1.35-1.40	0.6-2	0.14-0.16	0.0-2.9	3.0-5.0	.20	.20	1	6	48
	2-6	---	---	18-27	1.35-1.40	0.6-2	0.14-0.16	0.0-2.9	1.0-2.0	.28	.28			
	6-14	---	---	18-35	1.25-1.35	0.2-2	0.14-0.20	0.0-2.9	0.5-1.0	.32	.32			
	14-24	---	---	---	---	0.0000-0.06	---	---	---	---	---			
505: Moento-----	0-2	---	---	15-27	1.30-1.40	0.6-2	0.15-0.18	0.0-2.9	2.0-4.0	.24	.24	2	6	48
	2-6	---	---	27-35	1.25-1.35	0.2-0.6	0.17-0.21	0.0-2.9	2.0-4.0	.17	.17			
	6-21	---	---	27-35	1.25-1.35	0.2-0.6	0.17-0.21	0.0-2.9	2.0-4.0	.17	.17			
	21-30	---	---	20-35	1.30-1.40	0.2-0.6	0.16-0.19	3.0-5.9	0.5-1.0	.24	.24			
	30-36	---	---	15-35	1.35-1.45	0.2-6	0.13-0.16	0.0-2.9	0.0-0.5	.32	.32			
	36-40	---	---	---	---	0.0000-0.06	---	---	---	---	---			
506: Moento-----	0-2	---	---	15-27	1.30-1.40	0.6-2	0.15-0.18	0.0-2.9	2.0-4.0	.24	.24	2	6	48
	2-6	---	---	27-35	1.25-1.35	0.2-0.6	0.17-0.21	0.0-2.9	2.0-4.0	.17	.17			
	6-12	---	---	27-35	1.30-1.40	0.2-0.6	0.16-0.19	3.0-5.9	1.0-2.0	.24	.24			
	12-21	---	---	27-35	1.30-1.40	0.2-0.6	0.16-0.19	3.0-5.9	0.5-1.0	.24	.24			
	21-30	---	---	20-35	1.30-1.40	0.2-0.6	0.16-0.19	3.0-5.9	0.5-1.0	.24	.24			
	30-36	---	---	15-35	1.35-1.45	0.2-6	0.13-0.16	0.0-2.9	0.0-0.5	.32	.32			
	36-40	---	---	---	---	0.0000-0.06	---	---	---	---	---			
Detra-----	0-16	---	---	15-27	1.35-1.40	0.6-2	0.14-0.18	0.0-2.9	3.0-5.0	.20	.20	3	6	48
	16-30	---	---	15-27	1.35-1.40	0.6-2	0.14-0.18	0.0-2.9	3.0-5.0	.20	.20			
	30-43	---	---	18-35	1.30-1.40	0.2-2	0.14-0.20	0.0-2.9	2.0-4.0	.24	.24			
	43-51	---	---	18-35	1.30-1.40	0.2-2	0.14-0.20	0.0-2.9	2.0-4.0	.24	.24			
	51-57	---	---	27-35	1.25-1.35	0.2-0.6	0.16-0.19	0.0-2.9	0.5-1.0	.20	.20			
	57-61	---	---	---	---	0.0000-0.06	---	---	---	---	---			
Jemco-----	0-7	---	---	15-27	1.20-1.30	0.6-2	0.16-0.18	0.0-2.9	1.0-3.0	.37	.37	2	6	48
	7-14	---	---	15-27	1.20-1.30	0.6-2	0.16-0.18	0.0-2.9	0.5-1.0	.43	.43			
	14-22	---	---	18-27	1.20-1.30	0.6-2	0.16-0.18	0.0-2.9	0.5-1.0	.43	.43			
	22-35	---	---	27-35	1.25-1.35	0.2-0.6	0.17-0.19	0.0-2.9	0.5-1.0	.28	.28			
	35-39	---	---	27-35	1.35-1.40	0.2-0.6	0.17-0.19	0.0-2.9	0.0-0.5	.28	.28			
	39-43	---	---	---	---	0.0000-0.06	---	---	---	---	---			
508: Herm-----	0-6	---	---	15-25	1.25-1.30	0.6-2	0.13-0.16	0.0-2.9	2.0-3.0	.28	.28	5	5	56
	6-13	---	---	27-40	1.25-1.40	0.06-0.6	0.16-0.19	3.0-5.9	2.0-3.0	.28	.28			
	13-17	---	---	35-50	1.25-1.35	0.06-0.2	0.14-0.17	6.0-8.9	0.5-1.0	.24	.24			
	17-45	---	---	35-50	1.25-1.35	0.06-0.2	0.14-0.17	6.0-8.9	0.5-1.0	.24	.24			
	45-60	---	---	30-40	1.35-1.40	0.06-0.6	0.16-0.19	3.0-5.9	0.0-0.5	.28	.28			
Pagoda-----	0-1	---	---	15-27	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	5	6	48
	1-5	---	---	15-27	1.25-1.35	0.6-2	0.16-0.18	0.0-2.9	1.0-3.0	.28	.28			
	5-16	---	---	35-45	1.25-1.40	0.2-0.6	0.19-0.21	2.9-6.0	1.0-3.0	.20	.20			
	16-21	---	---	35-50	1.25-1.40	0.2-0.6	0.19-0.21	2.9-6.0	1.0-3.0	.20	.20			
	21-32	---	---	35-50	1.30-1.50	0.06-0.2	0.19-0.21	6.0-8.9	0.5-1.0	.24	.24			
	32-61	---	---	27-50	1.25-1.45	0.06-0.6	0.19-0.21	6.0-8.9	0.5-1.0	.24	.24			

Table 24.--Physical properties of the soils--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Permea- bility (Ksat)	Available water capacity	Linear extensi- bility	Organic matter	Erosion factors			Wind erodi- bility group	Wind erodi- bility index
										Kw	Kf	T		
	In.	Pct.	Pct.	Pct.	g/cc	In./hr.	In./in.	Pct.	Pct.					
509: Burnson, dry-----	0-1	---	---	15-27	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	3	6	48
	1-4	---	---	15-27	1.25-1.40	0.6-2	0.16-0.18	0.0-2.9	2.0-4.0	.24	.24			
	4-8	---	---	27-40	1.20-1.40	0.06-0.6	0.17-0.20	3.0-5.9	1.0-3.0	.20	.20			
	8-18	---	---	35-55	1.25-1.40	0.06-0.2	0.14-0.19	6.0-8.9	0.5-1.0	.24	.24			
	18-29	---	---	35-55	1.25-1.40	0.06-0.2	0.14-0.19	6.0-8.9	0.5-1.0	.24	.24			
	29-44	---	---	30-45	1.25-1.40	0.06-0.2	0.14-0.19	6.0-8.9	0.5-1.0	.24	.24			
	44-54	---	---	---	---	0.0000-0.06	---	---	---	---	---			
510: Jemco-----	0-7	---	---	15-27	1.20-1.30	0.6-2	0.16-0.18	0.0-2.9	1.0-3.0	.28	.28	2	6	48
	7-14	---	---	15-27	1.20-1.30	0.6-2	0.16-0.18	0.0-2.9	0.5-1.0	.43	.43			
	14-22	---	---	18-27	1.20-1.30	0.6-2	0.16-0.18	0.0-2.9	0.5-1.0	.43	.43			
	22-35	---	---	27-35	1.25-1.35	0.2-0.6	0.17-0.19	0.0-2.9	0.5-1.0	.28	.28			
	35-39	---	---	27-35	1.25-1.35	0.2-0.6	0.17-0.19	0.0-2.9	0.0-0.5	.28	.28			
	39-43	---	---	---	---	0.0000-0.06	---	---	---	---	---			
Moento-----	0-2	---	---	15-27	1.30-1.40	0.6-2	0.15-0.18	0.0-2.9	2.0-4.0	.24	.24	2	6	48
	2-6	---	---	27-35	1.25-1.35	0.2-0.6	0.17-0.21	0.0-2.9	2.0-4.0	.17	.17			
	6-12	---	---	27-35	1.25-1.35	0.2-0.6	0.17-0.21	0.0-2.9	2.0-4.0	.17	.17			
	12-22	---	---	27-35	1.25-1.35	0.2-0.6	0.17-0.21	0.0-2.9	1.0-2.0	.17	.17			
	22-30	---	---	20-35	1.30-1.40	0.2-0.6	0.16-0.18	3.0-5.9	0.5-1.0	.24	.24			
	30-36	---	---	15-35	1.35-1.45	0.2-6	0.13-0.16	0.0-2.9	0.0-0.5	.32	.32			
	36-40	---	---	---	---	0.0000-0.06	---	---	---	---	---			
511: Granath-----	0-2	---	---	15-27	1.30-1.40	0.6-2	0.18-0.20	0.0-2.9	2.0-4.0	.24	.24	5	6	48
	2-10	---	---	15-27	1.30-1.40	0.6-2	0.18-0.20	0.0-2.9	2.0-4.0	.24	.24			
	10-15	---	---	18-35	1.15-1.40	0.2-2	0.14-0.21	0.0-2.9	0.5-1.0	.24	.24			
	15-20	---	---	18-35	1.15-1.40	0.2-2	0.14-0.21	0.0-2.9	0.5-1.0	.24	.24			
	20-28	---	---	18-40	1.25-1.40	0.2-2	0.14-0.21	0.0-2.9	0.5-1.0	.24	.24			
	28-40	---	---	18-40	1.15-1.40	0.2-2	0.14-0.21	0.0-2.9	0.5-1.0	.24	.24			
	40-49	---	---	18-40	1.15-1.40	0.2-0.6	0.14-0.21	0.0-2.9	0.0-0.5	.28	.28			
	49-60	---	---	18-40	1.25-1.40	0.2-0.6	0.14-0.21	0.0-2.9	0.0-0.5	.28	.28			
Fughes-----	0-1	---	---	15-27	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	5	6	48
	1-8	---	---	15-27	1.30-1.40	0.6-2	0.16-0.18	0.0-2.9	2.0-4.0	.24	.24			
	8-27	---	---	35-40	1.25-1.35	0.2-0.6	0.18-0.20	3.0-5.9	0.5-1.0	.24	.24			
	27-45	---	---	35-50	1.15-1.40	0.06-0.2	0.14-0.16	6.0-8.9	0.5-1.0	.17	.17			
	45-61	---	---	35-60	1.25-1.35	0.06-0.2	0.14-0.16	6.0-8.9	0.0-0.5	.17	.17			
512: Wetherill-----	0-6	---	---	10-27	1.25-1.40	0.6-2	0.15-0.18	0.0-2.9	0.5-2.0	.37	.37	5	5	56
	6-20	---	---	18-35	1.25-1.50	0.2-0.6	0.14-0.16	3.0-5.9	0.5-1.0	.37	.37			
	20-47	---	---	18-35	1.40-1.55	0.2-0.6	0.18-0.21	3.0-5.9	0.5-1.0	.37	.37			
	47-60	---	---	18-25	1.25-1.40	0.6-2	0.11-0.15	0.0-2.9	0.0-0.5	.37	.37			
513: Maudrey-----	0-4	---	---	15-27	1.25-1.35	0.6-2	0.16-0.18	0.0-2.9	2.0-4.0	.24	.24	4	6	48
	4-11	---	---	15-27	1.25-1.35	0.6-2	0.16-0.18	0.0-2.9	2.0-4.0	.24	.24			
	11-19	---	---	15-27	1.25-1.35	0.6-2	0.16-0.18	0.0-2.9	2.0-4.0	.24	.24			
	19-25	---	---	15-27	1.25-1.35	0.6-2	0.13-0.16	0.0-2.9	0.5-2.0	.37	.37			
	25-31	---	---	15-27	1.25-1.35	0.6-2	0.13-0.16	0.0-2.9	0.5-2.0	.37	.37			
	31-41	---	---	35-55	1.15-1.25	0.06-0.2	0.14-0.18	6.0-8.9	0.0-0.5	.28	.28			
	41-54	---	---	35-55	1.15-1.25	0.06-0.2	0.14-0.18	6.0-8.9	0.0-0.5	.28	.28			
	54-60	---	---	35-60	1.15-1.25	0.06-0.2	0.14-0.18	6.0-8.9	0.0-0.5	.17	.17			
Tombac-----	0-1	---	---	15-27	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	4	6	48
	1-3	---	---	15-27	1.25-1.35	0.6-2	0.14-0.17	0.0-2.9	2.0-5.0	.20	.20			
	3-12	---	---	15-27	1.25-1.35	0.6-2	0.14-0.17	0.0-2.9	2.0-5.0	.20	.20			
	12-16	---	---	15-35	1.25-1.35	0.6-2	0.14-0.17	0.0-2.9	2.0-5.0	.20	.20			
	16-26	---	---	35-55	1.15-1.25	0.06-0.2	0.16-0.18	3.0-5.9	0.5-1.0	.17	.17			
	26-37	---	---	35-55	1.15-1.25	0.06-0.2	0.16-0.18	3.0-5.9	0.5-1.0	.17	.17			
	37-46	---	---	35-55	1.15-1.25	0.06-0.2	0.16-0.18	3.0-5.9	0.5-1.0	.17	.17			
	46-61	---	---	35-55	1.15-1.25	0.06-0.2	0.16-0.18	3.0-5.9	0.5-1.0	.17	.17			
525: Arabrab-----	0-3	---	---	15-27	1.25-1.35	0.6-2	0.16-0.18	0.0-2.9	1.0-2.0	.28	.28	1	6	48
	3-7	---	---	18-35	1.30-1.40	0.6-2	0.17-0.19	0.0-2.9	0.0-1.0	.24	.24			
	7-15	---	---	18-30	1.25-1.35	0.6-2	0.14-0.17	0.0-2.9	0.0-0.5	.24	.43			
	15-19	---	---	---	---	0.0000-0.06	---	---	---	---	---			
526: Lonecone-----	0-6	---	---	15-27	1.30-1.40	0.6-2	0.14-0.18	0.0-2.9	4.0-6.0	.20	.20	3	6	48
	6-27	---	---	18-35	1.25-1.35	0.6-2	0.14-0.21	0.0-2.9	2.0-4.0	.24	.24			
	27-30	---	---	15-35	1.30-1.40	0.6-2	0.11-0.13	0.0-2.9	0.5-1.0	.17	.32			
	30-40	---	---	---	---	0.0000-0.06	---	---	---	---	---			
527: Ormiston-----	0-7	---	---	15-27	1.25-1.35	0.6-2	0.13-0.16	0.0-2.9	2.0-4.0	.24	.24	3	6	48
	7-24	---	---	35-60	1.35-1.40	0.06-0.2	0.07-0.11	3.0-5.9	0.0-0.5	.10	.28			
	24-32	---	---	35-60	1.35-1.40	0.06-0.2	0.07-0.11	3.0-5.9	0.0-0.5	.10	.28			
	32-44	---	---	27-40	1.30-1.40	0.2-0.6	0.13-0.16	3.0-5.9	0.0-0.5	.15	.28			
	44-54	---	---	---	---	0.0000-0.06	---	---	---	---	---			

Table 24.--Physical properties of the soils--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Permea- bility (Ksat)	Available water capacity	Linear extensi- bility	Organic matter	Erosion factors			Wind erodi- bility group	Wind erodi- bility index
										Kw	Kf	T		
	In.	Pct.	Pct.	Pct.	g/cc	In./hr.	In./in.	Pct.	Pct.					
527: Beje-----	0-2	---	---	15-27	1.35-1.40	0.6-2	0.14-0.16	0.0-2.9	3.0-5.0	.20	.20	1	6	48
	2-6	---	---	18-27	1.35-1.40	0.6-2	0.14-0.16	0.0-2.9	1.0-2.0	.28	.28			
	6-14	---	---	18-35	1.25-1.35	0.2-2	0.14-0.20	0.0-2.9	0.5-1.0	.32	.32			
	14-24	---	---	---	---	0.0000-0.06	---	---	---	---	---			
552: Burnson-----	0-1	---	---	15-27	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	3	6	48
	1-4	---	---	15-27	1.20-1.40	0.6-2	0.16-0.18	0.0-2.9	2.0-4.0	.24	.24			
	4-8	---	---	27-45	1.20-1.40	0.06-0.6	0.17-0.20	3.0-5.9	1.0-3.0	.20	.20			
	8-18	---	---	35-55	1.25-1.40	0.06-0.2	0.14-0.19	6.0-8.9	0.5-1.0	.24	.24			
	18-29	---	---	35-55	1.25-1.40	0.06-0.2	0.14-0.19	6.0-8.9	0.5-1.0	.24	.24			
	29-44	---	---	30-45	1.25-1.40	0.06-0.2	0.14-0.19	6.0-8.9	0.5-1.0	.24	.24			
	44-54	---	---	---	---	0.0000-0.06	---	---	---	---	---			
553: Burnson-----	0-1	---	---	27-35	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	3	6	48
	1-4	---	---	27-35	1.25-1.35	0.2-0.6	0.17-0.20	0.0-2.9	2.0-4.0	.24	.24			
	4-8	---	---	27-35	1.25-1.35	0.2-0.6	0.17-0.20	0.0-2.9	2.0-4.0	.24	.24			
	8-18	---	---	35-55	1.25-1.40	0.06-0.2	0.14-0.19	6.0-8.9	0.5-1.0	.24	.24			
	18-29	---	---	35-55	1.25-1.40	0.06-0.2	0.14-0.19	6.0-8.9	0.5-1.0	.24	.24			
	29-44	---	---	35-55	1.25-1.40	0.06-0.2	0.14-0.19	6.0-8.9	0.5-1.0	.24	.24			
	44-54	---	---	---	---	0.0000-0.06	---	---	---	---	---			
Herm-----	0-6	---	---	15-25	1.25-1.30	0.6-6	0.13-0.16	0.0-2.9	2.0-3.0	.28	.28	5	5	56
	6-13	---	---	27-40	1.30-1.40	0.06-0.6	0.16-0.19	3.0-5.9	2.0-3.0	.28	.28			
	13-17	---	---	35-50	1.25-1.35	0.06-0.2	0.14-0.17	6.0-8.9	0.5-1.0	.24	.24			
	17-45	---	---	35-50	1.25-1.35	0.06-0.2	0.14-0.17	6.0-8.9	0.5-1.0	.24	.24			
	45-60	---	---	30-40	1.35-1.40	0.06-0.6	0.16-0.19	3.0-5.9	0.0-0.5	.28	.28			
571: Mancos-----	0-8	---	---	15-27	1.20-1.30	0.6-2	0.16-0.18	0.0-2.9	2.0-4.0	.24	.24	2	6	48
	8-15	---	---	35-40	1.30-1.40	0.2-0.6	0.18-0.20	3.0-5.9	2.0-4.0	.20	.20			
	15-21	---	---	35-55	1.30-1.40	0.06-0.6	0.17-0.19	6.0-8.9	1.0-2.0	.17	.17			
	21-26	---	---	35-55	1.30-1.40	0.06-0.6	0.17-0.19	6.0-8.9	0.5-1.0	.17	.17			
	26-34	---	---	20-35	1.25-1.35	0.6-2	0.10-0.13	0.0-2.9	0.5-1.0	.10	.20			
	34-38	---	---	---	---	0.0000-0.06	---	---	---	---	---			
Skisams-----	0-5	---	---	15-27	1.25-1.40	0.6-6	0.13-0.16	0.0-2.9	2.0-4.0	.24	.24	1	6	48
	5-12	---	---	18-27	1.25-1.40	0.6-2	0.13-0.17	0.0-2.9	0.5-2.0	.37	.37			
	12-16	---	---	---	---	0.0000-0.06	---	---	---	---	---			
Skutum-----	0-3	---	---	18-27	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	4	6	48
	3-8	---	---	18-27	1.25-1.35	0.6-2	0.14-0.18	0.0-2.9	3.0-7.0	.20	.20			
	8-20	---	---	27-35	1.25-1.35	0.2-0.6	0.17-0.21	0.0-2.9	3.0-5.0	.15	.15			
	20-30	---	---	27-40	1.25-1.35	0.2-0.6	0.14-0.18	0.0-2.9	1.0-4.0	.10	.20			
	30-47	---	---	35-45	1.15-1.35	0.06-0.2	0.13-0.16	3.0-5.9	0.5-1.0	.10	.17			
	47-53	---	---	20-30	1.25-1.40	0.2-2	0.12-0.15	0.0-2.9	0.0-0.5	.15	.24			
	53-63	---	---	---	---	0.0000-0.06	---	---	---	---	---			
572: Sudduth-----	0-3	---	---	15-27	1.25-1.35	0.6-2	0.16-0.18	0.0-2.9	2.0-4.0	.24	.24	5	6	48
	3-7	---	---	15-27	1.25-1.35	0.6-2	0.16-0.18	0.0-2.9	2.0-4.0	.24	.24			
	7-13	---	---	35-40	1.35-1.45	0.2-0.6	0.16-0.19	3.0-5.9	1.0-3.0	.20	.20			
	13-22	---	---	40-60	1.35-1.45	0.06-0.2	0.13-0.16	6.0-8.9	0.5-3.0	.15	.15			
	22-38	---	---	27-40	1.35-1.45	0.2-0.6	0.13-0.16	3.0-5.9	0.5-2.0	.15	.24			
	38-52	---	---	40-60	1.30-1.45	0.06-0.2	0.14-0.16	6.0-8.9	0.5-1.0	.15	.15			
	52-60	---	---	40-60	1.30-1.45	0.06-0.2	0.14-0.16	6.0-8.9	0.5-1.0	.15	.15			
600: Valto-----	0-2	---	---	5-18	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	1	8	0
	2-4	---	---	5-18	1.35-1.45	2-6	0.06-0.08	0.0-2.9	0.5-1.0	.10	.28			
	4-14	---	---	5-18	1.35-1.45	2-6	0.04-0.08	0.0-2.9	0.0-1.0	.10	.28			
	14-18	---	---	---	---	0.0000-0.06	---	---	---	---	---			
Rock outcrop-----	0-60	---	---	---	---	0.0000-0.06	0.00-0.00	---	---	---	---	-	8	0
601: Weminuche-----	0-2	---	---	15-27	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	5	6	48
	2-4	---	---	15-27	1.30-1.40	0.6-2	0.14-0.17	0.0-2.9	1.0-2.0	.37	.37			
	4-11	---	---	15-27	1.30-1.45	0.6-6	0.14-0.16	0.0-2.9	0.5-1.0	.37	.37			
	11-21	---	---	15-30	1.30-1.45	0.6-6	0.14-0.16	0.0-2.9	0.5-1.0	.37	.37			
	21-34	---	---	23-35	1.30-1.40	0.2-0.6	0.14-0.19	0.0-2.9	0.0-0.5	.28	.28			
	34-44	---	---	23-35	1.30-1.40	0.2-0.6	0.14-0.19	0.0-2.9	0.0-0.5	.28	.28			
	44-62	---	---	23-35	1.30-1.40	0.2-2	0.12-0.16	0.0-2.9	0.0-0.5	.24	.28			
602: Weminuche-----	0-2	---	---	15-27	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	5	6	48
	2-4	---	---	15-27	1.30-1.40	0.6-2	0.14-0.17	0.0-2.9	1.0-2.0	.37	.37			
	4-11	---	---	15-27	1.30-1.45	0.6-6	0.14-0.16	0.0-2.9	0.5-1.0	.37	.37			
	11-21	---	---	15-30	1.30-1.45	0.6-6	0.14-0.16	0.0-2.9	0.5-1.0	.37	.37			
	21-34	---	---	23-35	1.30-1.40	0.2-0.6	0.14-0.19	0.0-2.9	0.0-0.5	.28	.28			
	34-44	---	---	23-35	1.30-1.40	0.2-0.6	0.14-0.19	0.0-2.9	0.0-0.5	.28	.28			
	44-62	---	---	23-35	1.30-1.40	0.2-2	0.12-0.16	0.0-2.9	0.0-0.5	.24	.28			

Table 24.--Physical properties of the soils--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Permea- bility (Ksat)	Available water capacity	Linear extensi- bility	Organic matter	Erosion factors			Wind erodi- bility group	Wind erodi- bility index
										Kw	Kf	T		
	In.	Pct.	Pct.	Pct.	g/cc	In./hr.	In./in.	Pct.	Pct.					
603:														
Weminuche-----	0-2	---	---	15-27	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	5	6	48
	2-4	---	---	15-27	1.30-1.40	0.6-2	0.14-0.17	0.0-2.9	1.0-2.0	.37	.37			
	4-11	---	---	15-27	1.30-1.45	0.6-6	0.14-0.16	0.0-2.9	0.5-1.0	.37	.37			
	11-21	---	---	15-30	1.30-1.45	0.6-6	0.14-0.16	0.0-2.9	0.5-1.0	.37	.37			
	21-34	---	---	23-35	1.30-1.40	0.2-0.6	0.14-0.19	0.0-2.9	0.0-0.5	.28	.28			
	34-44	---	---	23-35	1.30-1.40	0.2-0.6	0.14-0.19	0.0-2.9	0.0-0.5	.28	.28			
	44-62	---	---	23-35	1.30-1.40	0.2-2	0.12-0.16	0.0-2.9	0.0-0.5	.24	.28			
Anvik-----	0-1	---	---	15-25	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	5	5	56
	1-7	---	---	15-25	1.25-1.40	0.6-6	0.14-0.18	0.0-2.9	2.0-4.0	.24	.24			
	7-11	---	---	15-25	1.25-1.40	0.6-6	0.14-0.18	0.0-2.9	2.0-4.0	.24	.24			
	11-22	---	---	10-25	1.25-1.50	0.6-6	0.12-0.17	0.0-2.9	0.5-1.0	.28	.28			
	22-31	---	---	20-35	1.25-1.35	0.6-2	0.18-0.20	0.0-2.9	0.0-1.0	.28	.28			
	31-45	---	---	20-35	1.25-1.35	0.6-2	0.18-0.20	0.0-2.9	0.0-1.0	.28	.28			
	45-61	---	---	20-35	1.45-1.55	0.6-2	0.12-0.15	0.0-2.9	0.0-0.5	.28	.28			
605:														
Nordicol-----	0-1	---	---	12-20	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	5	8	0
	1-7	---	---	12-20	1.30-1.40	2-6	0.07-0.09	0.0-2.9	2.0-3.0	.10	.28			
	7-20	---	---	15-27	1.30-1.40	0.6-2	0.07-0.09	0.0-2.9	2.0-3.0	.10	.28			
	20-28	---	---	10-20	1.35-1.50	2-6	0.07-0.10	0.0-2.9	0.5-1.0	.15	.28			
	28-52	---	---	18-35	1.25-1.35	0.6-2	0.07-0.11	0.0-2.9	0.0-0.5	.10	.28			
	52-61	---	---	10-20	1.35-1.50	2-6	0.04-0.06	0.0-2.9	0.0-0.5	.05	.32			
606:														
Snowdon-----	0-2	---	---	10-27	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	1	8	0
	2-6	---	---	10-27	1.30-1.40	0.6-2	0.10-0.13	0.0-2.9	1.0-3.0	.15	.28			
	6-13	---	---	10-20	1.35-1.45	0.6-6	0.06-0.13	0.0-2.9	0.0-0.5	.10	.32			
	13-20	---	---	18-35	1.25-1.45	0.6-2	0.05-0.10	0.0-2.9	0.0-0.5	.05	.24			
	20-24	---	---	---	---	0.0000-0.06	---	---	---	---	---			
Needleton-----	0-2	---	---	10-27	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	5	5	56
	2-16	---	---	10-27	1.30-1.45	0.6-2	0.09-0.12	0.0-2.9	0.5-1.0	.20	.37			
	16-26	---	---	15-30	1.30-1.40	0.6-2	0.07-0.10	0.0-2.9	0.5-1.0	.10	.20			
	26-48	---	---	18-35	1.30-1.40	0.2-0.6	0.05-0.08	0.0-2.9	0.0-0.5	.10	.24			
	48-62	---	---	27-35	1.30-1.40	0.2-0.6	0.05-0.08	0.0-2.9	0.0-0.5	.10	.24			
607:														
Graysill-----	0-2	---	---	10-27	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	2	5	56
	2-14	---	---	10-27	1.30-1.40	0.6-2	0.14-0.18	0.0-2.9	1.0-3.0	.28	.28			
	14-22	---	---	18-35	1.30-1.40	0.2-0.6	0.14-0.19	0.0-2.9	0.5-1.0	.20	.37			
	22-37	---	---	18-35	1.30-1.40	0.2-0.6	0.14-0.19	0.0-2.9	0.5-1.0	.20	.37			
	37-41	---	---	---	---	0.0000-0.06	---	---	---	---	---			
Scotch-----	0-2	---	---	10-27	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	1	5	56
	2-7	---	---	10-27	1.30-1.40	0.6-2	0.14-0.18	0.0-2.9	1.0-3.0	.28	.28			
	7-17	---	---	18-35	1.30-1.40	0.2-0.6	0.13-0.19	0.0-2.9	0.5-1.0	.20	.37			
	17-21	---	---	---	---	0.0000-0.06	---	---	---	---	---			
608:														
Scotch-----	0-2	---	---	10-27	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	1	5	56
	2-7	---	---	10-27	1.30-1.40	0.6-2	0.14-0.18	0.0-2.9	1.0-3.0	.28	.28			
	7-17	---	---	18-35	1.30-1.40	0.2-0.6	0.13-0.19	0.0-2.9	0.5-1.0	.20	.37			
	17-21	---	---	---	---	0.0000-0.06	---	---	---	---	---			
Graysill-----	0-2	---	---	10-27	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	2	5	56
	2-14	---	---	10-27	1.30-1.40	0.6-2	0.14-0.18	0.0-2.9	1.0-3.0	.28	.28			
	14-22	---	---	18-35	1.30-1.40	0.2-0.6	0.14-0.19	0.0-2.9	0.5-1.0	.20	.37			
	22-37	---	---	18-35	1.30-1.40	0.2-0.6	0.14-0.19	0.0-2.9	0.5-1.0	.20	.37			
	37-41	---	---	---	---	0.0000-0.06	---	---	---	---	---			
609:														
Hourglass-----	0-11	---	---	15-27	1.25-1.35	0.6-2	0.16-0.18	0.0-2.9	2.0-4.0	.24	.24	5	6	48
	11-18	---	---	20-35	1.30-1.40	0.2-0.6	0.14-0.18	0.0-2.9	0.5-1.0	.15	.24			
	18-31	---	---	20-35	1.30-1.40	0.2-0.6	0.14-0.18	0.0-2.9	0.5-1.0	.15	.24			
	31-46	---	---	27-35	1.25-1.40	0.2-0.6	0.12-0.18	0.0-2.9	0.0-0.5	.10	.28			
	46-60	---	---	20-35	1.30-1.40	0.2-2	0.09-0.16	0.0-2.9	0.0-0.5	.10	.28			
Wander-----	0-14	---	---	15-27	1.30-1.35	0.6-2	0.07-0.09	0.0-2.9	2.0-4.0	.10	.24	5	8	0
	14-27	---	---	20-35	1.30-1.40	0.2-0.6	0.06-0.11	0.0-2.9	0.5-1.0	.02	.20			
	27-40	---	---	20-35	1.30-1.40	0.2-0.6	0.06-0.11	0.0-2.9	0.5-1.0	.02	.20			
	40-60	---	---	20-35	1.30-1.40	0.2-0.6	0.06-0.11	0.0-2.9	0.5-1.0	.02	.20			
610:														
Wander-----	0-14	---	---	15-27	1.30-1.35	0.6-2	0.07-0.09	0.0-2.9	2.0-4.0	.10	.24	5	8	0
	14-27	---	---	20-35	1.30-1.40	0.2-0.6	0.06-0.11	0.0-2.9	0.5-1.0	.02	.20			
	27-40	---	---	20-35	1.30-1.40	0.2-0.6	0.06-0.11	0.0-2.9	0.5-1.0	.02	.20			
	40-60	---	---	20-35	1.30-1.40	0.2-0.6	0.06-0.11	0.0-2.9	0.5-1.0	.02	.20			
Hotter-----	0-4	---	---	10-18	1.35-1.45	2-6	0.05-0.07	0.0-2.9	0.5-1.0	.10	.28	1	8	0
	4-14	---	---	10-18	1.35-1.45	2-6	0.06-0.08	0.0-2.9	0.0-1.0	.10	.28			
	14-18	---	---	---	---	0.0000-0.06	---	---	---	---	---			

Table 24.--Physical properties of the soils--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Permea- bility (Ksat)	Available water capacity	Linear extensi- bility	Organic matter	Erosion factors			Wind erodi- bility group	Wind erodi- bility index
										Kw	Kf	T		
	In.	Pct.	Pct.	Pct.	g/cc	In./hr.	In./in.	Pct.	Pct.					
610: Hourglass-----	0-11	---	---	15-27	1.25-1.35	0.6-2	0.16-0.18	0.0-2.9	2.0-4.0	.24	.24	5	6	48
	11-18	---	---	20-35	1.30-1.40	0.2-0.6	0.14-0.18	0.0-2.9	0.5-1.0	.15	.24			
	18-31	---	---	20-35	1.30-1.40	0.2-0.6	0.14-0.18	0.0-2.9	0.5-1.0	.15	.24			
	31-46	---	---	27-35	1.25-1.40	0.2-0.6	0.12-0.18	0.0-2.9	0.0-0.5	.10	.28			
	46-60	---	---	20-35	1.30-1.40	0.2-2	0.09-0.16	0.0-2.9	0.0-0.5	.10	.28			
611: Goldbug-----	0-1	---	---	10-15	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	5	8	0
	1-10	---	---	10-15	1.40-1.45	2-6	0.06-0.08	0.0-2.9	1.0-2.0	.10	.24			
	10-21	---	---	10-15	1.40-1.45	2-6	0.06-0.08	0.0-2.9	1.0-2.0	.10	.24			
	21-29	---	---	10-35	1.35-1.40	0.2-0.6	0.10-0.13	0.0-2.9	0.5-1.0	.15	.28			
	29-61	---	---	35-50	1.35-1.40	0.06-0.2	0.10-0.16	3.0-5.9	0.5-1.0	.10	.17			
612: Haviland-----	0-2	---	---	10-27	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	5	5	56
	2-14	---	---	10-27	1.30-1.40	0.6-2	0.13-0.18	0.0-2.9	1.0-3.0	.28	.28			
	14-24	---	---	18-35	1.30-1.40	0.2-2	0.15-0.19	3.0-5.9	0.0-1.0	.28	.28			
	24-62	---	---	20-35	1.35-1.45	0.2-0.6	0.12-0.18	0.0-2.9	0.0-0.5	.15	.28			
Graysill-----	0-2	---	---	10-27	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	2	5	56
	2-14	---	---	10-27	1.30-1.40	0.6-2	0.14-0.18	0.0-2.9	1.0-3.0	.28	.28			
	14-22	---	---	18-35	1.30-1.40	0.2-0.6	0.14-0.19	0.0-2.9	0.5-1.0	.20	.37			
	22-37	---	---	18-35	1.30-1.40	0.2-0.6	0.14-0.19	0.0-2.9	0.5-1.0	.20	.37			
	37-41	---	---	---	---	0.0000-0.06	---	---	---	---	---			
615: Haviland-----	0-2	---	---	10-27	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	5	5	56
	2-14	---	---	10-27	1.30-1.40	0.6-2	0.13-0.18	0.0-2.9	1.0-3.0	.28	.28			
	14-24	---	---	18-35	1.30-1.40	0.2-2	0.15-0.19	3.0-5.9	0.0-1.0	.28	.28			
	24-62	---	---	20-35	1.35-1.45	0.2-0.6	0.12-0.18	0.0-2.9	0.0-0.5	.15	.28			
616: Fortlewis-----	0-1	---	---	15-20	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	2	3	86
	1-4	---	---	15-20	1.40-1.50	0.6-2	0.10-0.14	0.0-2.9	1.0-2.0	.15	.24			
	4-12	---	---	15-20	1.40-1.50	0.6-2	0.10-0.14	0.0-2.9	0.5-1.0	.15	.24			
	12-17	---	---	15-40	1.30-1.40	0.2-0.6	0.12-0.16	3.0-5.9	0.0-1.0	.15	.24			
	17-27	---	---	35-45	1.30-1.40	0.06-0.2	0.14-0.16	3.0-5.9	0.0-0.5	.15	.28			
	27-39	---	---	35-45	1.30-1.40	0.06-0.2	0.14-0.16	3.0-5.9	0.0-0.5	.15	.28			
	39-43	---	---	---	---	0.0000-0.06	---	---	---	---	---			
617: Shawa-----	0-7	---	---	15-27	1.25-1.35	0.6-2	0.16-0.18	0.0-2.9	1.0-3.0	.28	.28	5	6	48
	7-19	---	---	15-27	1.25-1.35	0.6-2	0.16-0.18	0.0-2.9	1.0-3.0	.28	.28			
	19-38	---	---	18-35	1.30-1.40	0.2-0.6	0.16-0.19	0.0-2.9	0.5-2.0	.24	.24			
	38-60	---	---	27-35	1.25-1.40	0.2-0.6	0.13-0.15	0.0-2.9	0.5-1.0	.15	.24			
618: Nordicol-----	0-2	---	---	15-27	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	5	8	0
	2-21	---	---	15-27	1.30-1.40	0.6-2	0.07-0.09	0.0-2.9	2.0-3.0	.10	.28			
	21-29	---	---	10-20	1.35-1.50	2-6	0.07-0.10	0.0-2.9	0.5-1.0	.15	.28			
	29-53	---	---	18-35	1.25-1.35	0.6-2	0.07-0.11	0.0-2.9	0.0-0.5	.10	.28			
	53-62	---	---	10-20	1.35-1.50	2-6	0.04-0.06	0.0-2.9	0.0-0.5	.05	.32			
Valto-----	0-2	---	---	5-18	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	1	8	0
	2-4	---	---	5-18	1.35-1.45	2-6	0.06-0.08	0.0-2.9	0.5-1.0	.10	.28			
	4-14	---	---	5-18	1.35-1.45	2-6	0.04-0.08	0.0-2.9	0.0-1.0	.10	.28			
	14-18	---	---	---	---	0.0000-0.06	---	---	---	---	---			
619: Nordicol-----	0-2	---	---	15-27	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	5	8	0
	2-17	---	---	15-27	1.30-1.40	0.6-2	0.04-0.07	0.0-2.9	2.0-3.0	.05	.28			
	17-31	---	---	10-25	1.35-1.50	0.6-6	0.07-0.10	0.0-2.9	0.5-1.0	.10	.28			
	31-62	---	---	18-35	1.25-1.35	0.6-2	0.07-0.11	0.0-2.9	0.0-0.5	.05	.28			
620: Caviness-----	0-3	---	---	15-27	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	3	6	48
	3-13	---	---	15-27	1.30-1.40	0.6-2	0.16-0.18	0.0-2.9	2.0-4.0	.24	.24			
	13-21	---	---	15-27	1.30-1.40	0.6-2	0.12-0.14	0.0-2.9	1.0-2.0	.10	.17			
	21-32	---	---	15-27	1.30-1.40	0.6-2	0.12-0.14	0.0-2.9	1.0-2.0	.10	.17			
	32-51	---	---	35-50	1.25-1.35	0.06-0.2	0.13-0.19	6.0-8.9	0.0-0.5	.10	.17			
	51-58	---	---	35-50	1.25-1.35	0.06-0.2	0.13-0.19	6.0-8.9	0.0-0.5	.10	.17			
	58-62	---	---	---	---	0.0000-0.06	---	---	---	---	---			
621: Granturk-----	0-1	---	---	15-27	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	1	6	48
	1-3	---	---	15-27	1.35-1.45	0.6-2	0.13-0.16	0.0-2.9	1.0-2.0	.28	.28			
	3-8	---	---	15-27	1.35-1.45	0.6-2	0.13-0.16	0.0-2.9	1.0-2.0	.28	.28			
	8-17	---	---	20-35	1.30-1.45	0.6-2	0.16-0.18	0.0-2.9	0.0-1.0	.24	.24			
	17-19	---	---	10-20	1.40-1.50	2-6	0.05-0.07	0.0-2.9	0.0-0.5	.10	.32			
	19-23	---	---	---	---	0.0000-0.06	---	---	---	---	---			

Table 24.--Physical properties of the soils--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Permea- bility (Ksat)	Available water capacity	Linear extensi- bility	Organic matter	Erosion factors			Wind erodi- bility group	Wind erodi- bility index
										Kw	Kf	T		
	In.	Pct.	Pct.	Pct.	g/cc	In./hr.	In./in.	Pct.	Pct.					
622: Granturk-----	0-1	---	---	15-27	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	1	6	48
	1-3	---	---	15-27	1.35-1.45	0.6-2	0.13-0.16	0.0-2.9	1.0-2.0	.28	.28			
	3-8	---	---	15-27	1.35-1.45	0.6-2	0.13-0.16	0.0-2.9	1.0-2.0	.28	.28			
	8-17	---	---	20-35	1.30-1.45	0.6-2	0.16-0.18	0.0-2.9	0.0-1.0	.24	.24			
	17-19	---	---	10-20	1.40-1.50	2-6	0.05-0.07	0.0-2.9	0.0-0.5	.10	.32			
	19-23	---	---	---	---	0.0000-0.06	---	---	---	---	---			
Rock outcrop-----	0-60	---	---	---	---	0.0000-0.06	0.00-0.00	---	---	---	---	-	8	0
623: Chris-----	0-1	---	---	20-25	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	5	6	48
	1-13	---	---	20-25	1.35-1.40	0.6-2	0.11-0.14	0.0-2.9	0.5-1.0	.24	.43			
	13-23	---	---	20-35	1.30-1.40	0.2-0.6	0.11-0.16	0.0-2.9	0.0-0.5	.15	.24			
	23-31	---	---	20-35	1.30-1.40	0.2-2	0.08-0.12	0.0-2.9	0.0-0.5	.10	.24			
	31-42	---	---	30-50	1.30-1.40	0.06-0.2	0.07-0.11	3.0-5.9	0.0-0.5	.05	.17			
	42-61	---	---	20-35	1.30-1.40	0.2-2	0.08-0.12	0.0-2.9	0.0-0.5	.10	.24			
Nordicol-----	0-2	---	---	15-27	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	5	8	0
	2-21	---	---	15-27	1.30-1.40	0.6-2	0.07-0.09	0.0-2.9	2.0-3.0	.10	.28			
	21-29	---	---	10-20	1.35-1.50	2-6	0.07-0.10	0.0-2.9	0.5-1.0	.15	.28			
	29-53	---	---	18-35	1.25-1.35	0.6-2	0.07-0.11	0.0-2.9	0.0-0.5	.10	.28			
	53-62	---	---	10-20	1.35-1.50	2-6	0.04-0.06	0.0-2.9	0.0-0.5	.05	.32			
699: Haplocryolls-----	0-2	---	---	18-27	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	2	8	0
	2-10	---	---	18-27	1.25-1.30	0.6-2	0.05-0.09	0.0-2.9	2.0-4.0	.10	.24			
	10-19	---	---	18-27	1.25-1.30	0.6-2	0.05-0.09	0.0-2.9	2.0-4.0	.10	.24			
	19-29	---	---	10-35	1.35-1.40	0.2-2	0.07-0.11	0.0-2.9	0.5-1.0	.15	.37			
	29-62	---	---	10-35	1.35-1.40	0.2-2	0.07-0.11	0.0-2.9	0.5-1.0	.15	.37			
Rubble land-----	0-60	---	---	0-0	1.70-2.35	20-101	0.00-0.10	0.0-2.9	0.0-0.1	---	---	-	8	0
700: Bradfield-----	0-7	---	---	27-40	1.30-1.40	0.2-0.6	0.18-0.20	3.0-5.9	2.0-5.0	.15	.15	5	6	48
	7-15	---	---	35-55	1.20-1.35	0.06-0.2	0.15-0.18	6.0-8.9	2.0-4.0	.17	.17			
	15-28	---	---	35-60	1.25-1.40	0.06-0.2	0.15-0.18	6.0-8.9	2.0-3.0	.20	.20			
	28-36	---	---	35-60	1.25-1.40	0.06-0.2	0.15-0.18	6.0-8.9	0.5-2.0	.24	.24			
	36-60	---	---	35-50	1.20-1.35	0.06-0.6	0.14-0.18	6.0-8.9	0.0-0.5	.28	.28			
703: Narraguinnep-----	0-6	---	---	27-40	1.25-1.35	0.06-0.2	0.16-0.19	3.0-5.9	1.0-3.0	.20	.20	5	6	48
	6-17	---	---	35-50	1.15-1.25	0.06-0.2	0.14-0.16	6.0-8.9	1.0-3.0	.20	.20			
	17-23	---	---	35-50	1.15-1.25	0.06-0.2	0.14-0.16	6.0-8.9	1.0-3.0	.20	.20			
	23-30	---	---	27-50	1.25-1.35	0.06-0.2	0.13-0.18	3.0-8.9	0.5-1.0	.24	.24			
	30-60	---	---	27-50	1.25-1.35	0.06-0.2	0.13-0.18	3.0-8.9	0.5-1.0	.24	.24			
704: Gladlow-----	0-5	---	---	30-40	1.15-1.25	0.2-0.6	0.16-0.20	3.0-5.9	1.0-2.0	.28	.28	5	4L	86
	5-14	---	---	35-45	1.20-1.30	0.06-0.2	0.15-0.18	3.0-5.9	1.0-2.0	.28	.28			
	14-24	---	---	35-45	1.20-1.30	0.06-0.2	0.15-0.18	3.0-5.9	1.0-2.0	.28	.28			
	24-31	---	---	35-45	1.20-1.30	0.06-0.2	0.15-0.18	3.0-5.9	0.5-1.0	.32	.32			
	31-60	---	---	35-45	1.20-1.30	0.06-0.2	0.14-0.18	3.0-5.9	0.0-0.5	.28	.28			
Rock outcrop-----	0-60	---	---	---	---	0.0000-0.06	0.00-0.00	---	---	---	---	-	8	0
Ruko-----	0-2	---	---	27-40	1.15-1.25	0.06-0.2	0.17-0.20	3.0-5.9	1.0-2.0	.28	.28	2	4L	86
	2-11	---	---	35-45	1.20-1.30	0.06-0.2	0.17-0.20	3.0-5.9	0.5-1.0	.32	.32			
	11-21	---	---	---	---	0.0000-0.06	---	---	---	---	---			
705: Helmet-----	0-2	---	---	27-40	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	5	6	48
	2-4	---	---	27-40	1.30-1.40	0.2-0.6	0.18-0.20	3.0-5.9	3.0-6.0	.15	.15			
	4-13	---	---	27-40	1.30-1.40	0.2-0.6	0.14-0.18	3.0-5.9	3.0-5.0	.15	.15			
	13-21	---	---	35-55	1.25-1.35	0.06-0.2	0.12-0.16	6.0-8.9	1.0-2.0	.20	.20			
	21-28	---	---	35-55	1.25-1.35	0.06-0.2	0.12-0.16	6.0-8.9	1.0-2.0	.20	.20			
	28-46	---	---	35-50	1.25-1.35	0.06-0.2	0.14-0.18	6.0-8.9	0.5-1.0	.24	.24			
	46-62	---	---	27-40	1.30-1.40	0.2-0.6	0.16-0.18	3.0-5.9	0.5-1.0	.32	.32			
706: Narraguinnep-----	0-6	---	---	27-40	1.25-1.35	0.06-0.2	0.16-0.19	3.0-5.9	1.0-3.0	.20	.20	5	6	48
	6-17	---	---	35-50	1.15-1.25	0.06-0.2	0.14-0.16	6.0-8.9	1.0-3.0	.20	.20			
	17-23	---	---	35-50	1.15-1.25	0.06-0.2	0.14-0.16	6.0-8.9	1.0-3.0	.20	.20			
	23-30	---	---	27-50	1.25-1.35	0.06-0.2	0.13-0.18	3.0-8.9	0.5-1.0	.24	.24			
	30-60	---	---	27-50	1.25-1.35	0.06-0.2	0.13-0.18	3.0-8.9	0.5-1.0	.24	.24			
707: Teedown-----	0-12	---	---	18-27	1.30-1.40	0.6-2	0.16-0.18	0.0-2.9	2.0-5.0	.20	.20	5	6	48
	12-20	---	---	18-27	1.30-1.40	0.6-2	0.16-0.18	0.0-2.9	2.0-5.0	.20	.20			
	20-28	---	---	35-45	1.25-1.35	0.06-0.2	0.13-0.19	6.0-8.9	1.0-2.0	.15	.15			
	28-38	---	---	35-50	1.25-1.35	0.06-0.2	0.13-0.19	6.0-8.9	1.0-2.0	.15	.15			
	38-60	---	---	35-45	1.30-1.40	0.06-0.2	0.10-0.16	3.0-5.9	0.0-0.5	.10	.17			

Table 24.--Physical properties of the soils--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Permea- bility (Ksat)	Available water capacity	Linear extensi- bility	Organic matter	Erosion factors			Wind erodi- bility group	Wind erodi- bility index
										Kw	Kf	T		
	In.	Pct.	Pct.	Pct.	g/cc	In./hr.	In./in.	Pct.	Pct.					
707: Nordicol-----	0-3	---	---	15-27	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	5	8	0
	3-18	---	---	15-27	1.25-1.35	0.6-2	0.07-0.09	0.0-2.9	2.0-4.0	.10	.28			
	18-32	---	---	10-25	1.35-1.50	0.6-6	0.07-0.10	0.0-2.9	0.5-1.0	.15	.28			
	32-63	---	---	18-35	1.25-1.35	0.6-2	0.07-0.11	0.0-2.9	0.0-0.5	.05	.28			
708: Helmet-----	0-2	---	---	27-40	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	5	6	48
	2-4	---	---	27-40	1.30-1.40	0.2-0.6	0.18-0.20	3.0-5.9	3.0-6.0	.15	.15			
	4-13	---	---	27-40	1.30-1.40	0.2-0.6	0.14-0.18	3.0-5.9	3.0-5.0	.15	.15			
	13-21	---	---	35-55	1.25-1.35	0.06-0.2	0.12-0.16	6.0-8.9	1.0-2.0	.20	.20			
	21-28	---	---	35-55	1.25-1.35	0.06-0.2	0.12-0.16	6.0-8.9	1.0-2.0	.20	.20			
	28-46	---	---	35-50	1.25-1.35	0.06-0.2	0.14-0.18	6.0-8.9	0.5-1.0	.24	.24			
	46-62	---	---	27-40	1.30-1.40	0.2-0.6	0.16-0.18	3.0-5.9	0.5-1.0	.32	.32			
709: Teedown-----	0-12	---	---	18-27	1.30-1.40	0.6-2	0.16-0.18	0.0-2.9	2.0-5.0	.20	.20	5	6	48
	12-20	---	---	18-27	1.30-1.40	0.6-2	0.16-0.18	0.0-2.9	2.0-5.0	.20	.20			
	20-28	---	---	35-45	1.25-1.35	0.06-0.2	0.13-0.19	6.0-8.9	1.0-2.0	.15	.15			
	28-38	---	---	35-50	1.25-1.35	0.06-0.2	0.13-0.18	6.0-8.9	1.0-2.0	.15	.15			
	38-60	---	---	35-45	1.30-1.40	0.06-0.2	0.10-0.16	3.0-5.9	0.0-0.5	.10	.17			
710: Sili-----	0-3	---	---	27-35	1.30-1.40	0.2-0.6	0.18-0.20	3.0-5.9	0.5-1.0	.24	.24	5	4L	86
	3-15	---	---	35-45	1.25-1.35	0.2-0.6	0.17-0.19	3.0-5.9	0.5-1.0	.24	.24			
	15-25	---	---	35-45	1.25-1.35	0.2-0.6	0.16-0.18	3.0-5.9	0.0-0.5	.24	.24			
	25-50	---	---	35-45	1.25-1.35	0.2-0.6	0.16-0.18	3.0-5.9	0.0-0.5	.24	.24			
	50-60	---	---	35-45	1.25-1.35	0.2-0.6	0.16-0.18	3.0-5.9	0.0-0.5	.24	.24			
Zigzag-----	0-4	---	---	27-40	1.30-1.35	0.2-0.6	0.12-0.14	3.0-5.9	1.0-2.0	.10	.20	2	4L	86
	4-12	---	---	35-45	1.30-1.40	0.06-0.2	0.15-0.17	3.0-5.9	0.0-0.5	.24	.24			
	12-22	---	---	---	---	0.0000-0.06	---	---	---	---	---			
711: Sili-----	0-3	---	---	27-35	1.30-1.40	0.2-0.6	0.18-0.20	3.0-5.9	0.5-1.0	.24	.24	5	4L	86
	3-15	---	---	35-45	1.25-1.35	0.2-0.6	0.17-0.19	3.0-5.9	0.5-1.0	.24	.24			
	15-25	---	---	35-45	1.25-1.35	0.2-0.6	0.16-0.18	3.0-5.9	0.0-0.5	.24	.24			
	25-50	---	---	35-45	1.25-1.35	0.2-0.6	0.16-0.18	3.0-5.9	0.0-0.5	.24	.24			
	50-60	---	---	35-45	1.25-1.35	0.2-0.6	0.16-0.18	3.0-5.9	0.0-0.5	.24	.24			
714: Helmet-----	0-2	---	---	15-27	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	5	6	48
	2-4	---	---	15-27	1.25-1.35	0.6-2	0.16-0.18	0.0-2.9	3.0-6.0	.20	.20			
	4-13	---	---	27-40	1.30-1.40	0.2-0.6	0.14-0.18	3.0-5.9	3.0-5.0	.15	.15			
	13-21	---	---	35-55	1.25-1.35	0.06-0.2	0.12-0.16	6.0-8.9	1.0-2.0	.20	.20			
	21-28	---	---	35-55	1.25-1.35	0.06-0.2	0.12-0.16	6.0-8.9	1.0-2.0	.20	.20			
	28-46	---	---	35-50	1.25-1.35	0.06-0.2	0.14-0.18	6.0-8.9	0.5-1.0	.24	.24			
	46-62	---	---	27-40	1.30-1.40	0.2-0.6	0.16-0.18	3.0-5.9	0.5-1.0	.24	.24			
718: Naraguinnep-----	0-6	---	---	27-40	1.25-1.35	0.06-0.2	0.16-0.19	3.0-5.9	1.0-3.0	.20	.20	5	6	48
	6-17	---	---	35-50	1.15-1.25	0.06-0.2	0.14-0.16	6.0-8.9	1.0-3.0	.20	.20			
	17-23	---	---	35-50	1.15-1.25	0.06-0.2	0.14-0.16	6.0-8.9	1.0-3.0	.20	.20			
	23-30	---	---	27-50	1.25-1.35	0.06-0.2	0.13-0.18	3.0-8.9	0.5-1.0	.24	.24			
	30-60	---	---	27-50	1.25-1.35	0.06-0.2	0.13-0.18	3.0-8.9	0.5-1.0	.24	.24			
Gladlow-----	0-5	---	---	30-40	1.25-1.40	0.2-0.6	0.17-0.20	3.0-5.9	1.0-2.0	.20	.20	5	4L	86
	5-14	---	---	35-45	1.20-1.30	0.06-0.2	0.15-0.18	3.0-5.9	1.0-2.0	.28	.28			
	14-24	---	---	35-45	1.20-1.30	0.06-0.2	0.15-0.18	3.0-5.9	1.0-2.0	.28	.28			
	24-31	---	---	35-45	1.20-1.30	0.06-0.2	0.15-0.18	3.0-5.9	0.5-1.0	.32	.32			
	31-60	---	---	35-45	1.20-1.30	0.06-0.2	0.14-0.18	3.0-5.9	0.0-0.5	.28	.28			
720: Zigzag-----	0-4	---	---	27-40	1.30-1.35	0.2-0.6	0.12-0.14	3.0-5.9	1.0-2.0	.10	.20	2	4L	86
	4-12	---	---	35-45	1.30-1.40	0.06-0.2	0.15-0.17	3.0-5.9	0.0-0.5	.24	.24			
	12-22	---	---	---	---	0.0000-0.06	---	---	---	---	---			
Rock outcrop-----	0-60	---	---	---	---	0.0000-0.06	0.00-0.00	---	---	---	---	-	8	0
723: Zigzag-----	0-4	---	---	27-40	1.30-1.35	0.2-0.6	0.12-0.14	3.0-5.9	1.0-2.0	.10	.20	2	4L	86
	4-12	---	---	35-45	1.30-1.40	0.06-0.2	0.15-0.17	3.0-5.9	0.0-0.5	.24	.24			
	12-22	---	---	---	---	0.0000-0.06	---	---	---	---	---			
Rock outcrop-----	0-60	---	---	---	---	0.0000-0.06	0.00-0.00	---	---	---	---	-	8	0
725: Shawa-----	0-7	---	---	15-27	1.25-1.35	0.6-2	0.16-0.18	0.0-2.9	1.0-3.0	.28	.28	5	6	48
	7-19	---	---	15-27	1.25-1.35	0.6-2	0.16-0.18	0.0-2.9	1.0-3.0	.28	.28			
	19-38	---	---	18-35	1.30-1.40	0.2-0.6	0.16-0.19	0.0-2.9	0.5-2.0	.24	.24			
	38-60	---	---	27-35	1.25-1.40	0.2-0.6	0.13-0.15	0.0-2.9	0.5-1.0	.15	.24			

Table 24.--Physical properties of the soils--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Permea- bility (Ksat)	Available water capacity	Linear extensi- bility	Organic matter	Erosion factors			Wind erodi- bility group	Wind erodi- bility index
										Kw	Kf	T		
	In.	Pct.	Pct.	Pct.	g/cc	In./hr.	In./in.	Pct.	Pct.					
727:														
Teedown-----	0-12	---	---	18-27	1.30-1.40	0.6-2	0.16-0.18	0.0-2.9	2.0-5.0	.20	.20	5	6	48
	12-20	---	---	18-27	1.30-1.40	0.6-2	0.16-0.18	0.0-2.9	2.0-5.0	.20	.20			
	20-28	---	---	35-45	1.25-1.35	0.06-0.2	0.13-0.19	6.0-8.9	1.0-2.0	.15	.15			
	28-38	---	---	35-50	1.25-1.35	0.06-0.2	0.13-0.19	6.0-8.9	1.0-2.0	.15	.15			
	38-60	---	---	35-45	1.30-1.40	0.06-0.2	0.10-0.16	3.0-5.9	0.0-0.5	.10	.17			
Nordicol-----	0-3	---	---	15-27	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	5	8	0
	3-18	---	---	15-27	1.25-1.35	0.6-2	0.07-0.09	0.0-2.9	2.0-4.0	.10	.28			
	18-32	---	---	10-25	1.35-1.50	0.6-6	0.07-0.10	0.0-2.9	0.5-1.0	.10	.28			
	32-63	---	---	18-35	1.25-1.35	0.6-2	0.07-0.11	0.0-2.9	0.0-0.5	.05	.28			
730:														
Baird Hollow-----	0-2	---	---	20-25	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	5	6	48
	2-9	---	---	20-25	1.20-1.30	0.6-2	0.15-0.17	0.0-2.9	3.0-5.0	.20	.20			
	9-20	---	---	20-25	1.20-1.30	0.6-2	0.15-0.17	0.0-2.9	2.0-4.0	.20	.20			
	20-29	---	---	18-35	1.20-1.35	0.2-0.6	0.08-0.11	3.0-5.9	1.0-3.0	.05	.20			
	29-62	---	---	35-45	1.25-1.35	0.06-0.2	0.08-0.11	3.0-5.9	0.5-1.0	.05	.17			
Nordicol-----	0-1	---	---	10-20	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	5	8	0
	1-20	---	---	10-20	1.25-1.35	2-6	0.07-0.09	0.0-2.9	2.0-3.0	.10	.28			
	20-28	---	---	10-20	1.35-1.50	2-6	0.07-0.10	0.0-2.9	0.5-1.0	.15	.28			
	28-52	---	---	18-35	1.25-1.35	0.6-2	0.07-0.11	0.0-2.9	0.0-0.5	.10	.28			
	52-61	---	---	10-20	1.35-1.50	2-6	0.04-0.06	0.0-2.9	0.0-0.5	.05	.32			
Ryman-----	0-13	---	---	27-40	1.15-1.25	0.2-0.6	0.17-0.21	3.0-5.9	3.0-6.0	.20	.20	5	7	38
	13-19	---	---	27-40	1.15-1.25	0.2-0.6	0.17-0.21	3.0-5.9	3.0-6.0	.20	.20			
	19-36	---	---	35-45	1.20-1.30	0.06-0.2	0.14-0.16	3.0-5.9	0.5-1.0	.24	.24			
	36-60	---	---	35-45	1.25-1.35	0.06-0.2	0.12-0.15	3.0-5.9	0.5-1.0	.15	.24			
731:														
Ryman-----	0-13	---	---	27-40	1.15-1.25	0.2-0.6	0.17-0.21	3.0-5.9	3.0-6.0	.20	.20	5	7	38
	13-19	---	---	27-40	1.15-1.25	0.2-0.6	0.17-0.21	3.0-5.9	3.0-6.0	.20	.20			
	19-36	---	---	35-45	1.20-1.30	0.06-0.2	0.14-0.16	3.0-5.9	0.5-1.0	.24	.24			
	36-60	---	---	35-45	1.25-1.35	0.06-0.2	0.12-0.15	3.0-5.9	0.5-1.0	.15	.24			
Adel-----	0-14	---	---	18-27	1.25-1.40	0.6-2	0.16-0.18	0.0-2.9	3.0-7.0	.20	.20	5	6	48
	14-24	---	---	18-27	1.25-1.40	0.6-2	0.16-0.18	0.0-2.9	2.0-5.0	.20	.20			
	24-36	---	---	18-30	1.25-1.40	0.6-2	0.16-0.20	0.0-2.9	2.0-5.0	.20	.20			
	36-60	---	---	18-35	1.25-1.40	0.2-2	0.12-0.20	0.0-2.9	0.5-1.0	.15	.24			
732:														
Adel-----	0-14	---	---	18-27	1.25-1.40	0.6-2	0.16-0.18	0.0-2.9	3.0-7.0	.20	.20	5	6	48
	14-24	---	---	18-27	1.25-1.40	0.6-2	0.16-0.18	0.0-2.9	2.0-5.0	.20	.20			
	24-36	---	---	18-30	1.25-1.40	0.6-2	0.16-0.20	0.0-2.9	2.0-5.0	.20	.20			
	36-60	---	---	18-35	1.25-1.40	0.2-2	0.12-0.20	0.0-2.9	0.5-1.0	.15	.24			
Quazar-----	0-12	---	---	15-27	1.30-1.35	0.6-2	0.07-0.09	0.0-2.9	2.0-4.0	.10	.24	5	8	0
	12-26	---	---	20-35	1.30-1.40	0.6-2	0.04-0.06	0.0-2.9	0.5-1.0	.02	.20			
	26-60	---	---	27-35	1.30-1.40	0.6-2	0.04-0.06	0.0-2.9	0.0-0.5	.02	.20			
733:														
Adel-----	0-14	---	---	18-27	1.25-1.40	0.6-2	0.16-0.18	0.0-2.9	3.0-7.0	.20	.20	5	6	48
	14-24	---	---	18-27	1.25-1.40	0.6-2	0.16-0.18	0.0-2.9	2.0-5.0	.20	.20			
	24-36	---	---	18-30	1.25-1.40	0.6-2	0.16-0.20	0.0-2.9	2.0-5.0	.20	.20			
	36-60	---	---	18-35	1.25-1.40	0.2-2	0.12-0.20	0.0-2.9	0.5-1.0	.15	.24			
Bucklon-----	0-1	---	---	18-35	1.35-1.40	0.6-2	0.17-0.20	0.0-2.9	2.0-5.0	.20	.20	2	6	48
	1-12	---	---	18-35	1.35-1.40	0.6-2	0.17-0.20	0.0-2.9	2.0-5.0	.20	.20			
	12-22	---	---	---	---	0.0000-0.06	---	---	---	---	---			
734:														
Ryman-----	0-13	---	---	27-40	1.15-1.25	0.2-0.6	0.17-0.21	3.0-5.9	3.0-6.0	.20	.20	5	7	38
	13-19	---	---	27-40	1.15-1.25	0.2-0.6	0.17-0.21	3.0-5.9	3.0-6.0	.20	.20			
	19-36	---	---	35-45	1.20-1.30	0.06-0.2	0.14-0.16	3.0-5.9	0.5-1.0	.24	.24			
	36-60	---	---	35-45	1.25-1.35	0.06-0.2	0.12-0.15	3.0-5.9	0.5-1.0	.15	.24			
Clayburn-----	0-5	---	---	15-25	1.25-1.40	0.6-2	0.14-0.17	0.0-2.9	2.0-4.0	.24	.24	5	5	56
	5-13	---	---	15-25	1.25-1.40	0.6-2	0.14-0.17	0.0-2.9	2.0-4.0	.24	.24			
	13-18	---	---	18-35	1.30-1.40	0.2-0.6	0.16-0.18	0.0-2.9	1.0-2.0	.20	.20			
	18-36	---	---	18-35	1.30-1.40	0.2-0.6	0.16-0.18	0.0-2.9	1.0-2.0	.20	.20			
	36-48	---	---	18-35	1.30-1.40	0.2-0.6	0.16-0.18	0.0-2.9	1.0-2.0	.20	.20			
	48-60	---	---	15-30	1.25-1.35	0.6-2	0.13-0.16	0.0-2.9	0.5-1.0	.20	.20			
740:														
Cowtown-----	0-3	---	---	10-27	1.25-1.40	2-6	0.13-0.16	0.0-2.9	1.0-3.0	.28	.28	5	5	56
	3-5	---	---	10-27	1.15-1.30	0.6-2	0.14-0.18	0.0-2.9	1.0-3.0	.43	.43			
	5-16	---	---	15-27	1.15-1.30	0.6-2	0.11-0.18	0.0-2.9	0.5-1.0	.24	.43			
	16-33	---	---	35-50	1.20-1.35	0.06-0.2	0.13-0.16	6.0-8.9	0.0-0.5	.28	.28			
	33-60	---	---	35-50	1.20-1.35	0.06-0.2	0.13-0.16	6.0-8.9	0.0-0.5	.28	.28			

Table 24.--Physical properties of the soils--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Permea- bility (Ksat)	Available water capacity	Linear extensi- bility	Organic matter	Erosion factors			Wind erodi- bility group	Wind erodi- bility index
										Kw	Kf	T		
	In.	Pct.	Pct.	Pct.	g/cc	In./hr.	In./in.	Pct.	Pct.					
740: Scout-----	0-1	---	---	10-15	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	5	5	56
	1-2	---	---	10-15	1.15-1.30	2-6	0.14-0.18	0.0-2.9	1.0-3.0	.37	.37			
	2-9	---	---	15-20	1.25-1.35	2-6	0.07-0.10	0.0-2.9	0.5-1.0	.15	.37			
	9-17	---	---	10-18	1.30-1.40	2-6	0.07-0.09	0.0-2.9	0.5-1.0	.15	.37			
	17-61	---	---	8-18	1.25-1.30	2-6	0.07-0.09	0.0-2.9	0.0-0.5	.15	.43			
741: Cowtown-----	0-3	---	---	10-27	1.25-1.40	2-6	0.13-0.16	0.0-2.9	1.0-3.0	.28	.28	5	5	56
	3-5	---	---	10-27	1.15-1.30	0.6-2	0.14-0.18	0.0-2.9	1.0-3.0	.43	.43			
	5-16	---	---	15-27	1.15-1.30	0.6-2	0.11-0.18	0.0-2.9	0.5-1.0	.24	.43			
	16-33	---	---	35-50	1.20-1.35	0.06-0.2	0.13-0.16	6.0-8.9	0.0-0.5	.28	.28			
	33-60	---	---	35-50	1.20-1.35	0.06-0.2	0.13-0.16	6.0-8.9	0.0-0.5	.28	.28			
Scout-----	0-1	---	---	10-15	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	5	5	56
	1-2	---	---	10-15	1.15-1.30	2-6	0.14-0.18	0.0-2.9	1.0-3.0	.37	.37			
	2-9	---	---	15-20	1.25-1.35	2-6	0.07-0.10	0.0-2.9	0.5-1.0	.15	.37			
	9-17	---	---	10-18	1.30-1.40	2-6	0.07-0.09	0.0-2.9	0.5-1.0	.15	.37			
	17-61	---	---	8-18	1.25-1.30	2-6	0.07-0.09	0.0-2.9	0.0-0.5	.15	.43			
750: Archuleta-----	0-3	---	---	27-35	1.25-1.40	0.2-0.6	0.13-0.16	0.0-2.9	0.5-1.0	.15	.24	2	6	48
	3-16	---	---	27-35	1.25-1.40	0.2-0.6	0.13-0.18	0.0-2.9	0.0-0.5	.28	.28			
	16-26	---	---	---	---	0.0000-0.06	---	---	---	---	---			
Sheek-----	0-1	---	---	10-20	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	5	8	0
	1-6	---	---	10-20	1.40-1.50	2-6	0.05-0.07	0.0-2.9	2.0-4.0	.05	.20			
	6-8	---	---	10-20	1.40-1.50	2-6	0.05-0.07	0.0-2.9	1.0-2.0	.05	.20			
	8-24	---	---	18-35	1.35-1.45	0.2-0.6	0.09-0.11	0.0-2.9	1.0-2.0	.05	.20			
	24-43	---	---	18-35	1.25-1.40	0.2-0.6	0.09-0.11	0.0-2.9	0.5-1.0	.05	.20			
	43-61	---	---	27-35	1.25-1.40	0.2-0.6	0.10-0.11	0.0-2.9	0.0-0.5	.10	.24			
801: Fughes-----	0-7	---	---	15-27	1.30-1.40	0.6-2	0.13-0.16	0.0-2.9	2.0-4.0	.24	.24	5	6	48
	7-26	---	---	35-40	1.25-1.40	0.2-0.6	0.18-0.20	3.0-5.9	1.0-3.0	.20	.20			
	26-44	---	---	35-50	1.15-1.40	0.06-0.2	0.16-0.19	6.0-8.9	0.5-1.0	.24	.24			
	44-60	---	---	35-60	1.25-1.30	0.06-0.2	0.14-0.16	6.0-8.9	0.0-0.5	.17	.17			
Sheek-----	0-2	---	---	27-35	1.25-1.35	0.2-0.6	0.12-0.13	0.0-2.9	1.0-2.0	.05	.20	5	8	0
	2-7	---	---	27-35	1.25-1.35	0.2-0.6	0.15-0.17	0.0-2.9	0.5-1.0	.15	.24			
	7-20	---	---	27-35	1.25-1.35	0.2-0.6	0.09-0.11	0.0-2.9	0.0-0.5	.10	.28			
	20-29	---	---	18-27	1.25-1.35	0.6-2	0.07-0.09	0.0-2.9	0.0-0.5	.15	.43			
	29-46	---	---	27-35	1.25-1.35	0.2-0.6	0.14-0.16	0.0-2.9	0.0-0.5	.15	.28			
	46-60	---	---	18-27	1.25-1.35	0.6-2	0.07-0.09	0.0-2.9	0.0-0.5	.15	.43			
802: Argiustolls-----	0-1	---	---	18-27	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	3	8	0
	1-4	---	---	18-27	1.25-1.40	0.6-2	0.04-0.07	0.0-2.9	1.0-4.0	.05	.28			
	4-7	---	---	18-40	1.25-1.40	0.2-2	0.04-0.07	0.0-2.9	1.0-3.0	.02	.20			
	7-13	---	---	18-40	1.25-1.40	0.2-2	0.04-0.07	0.0-2.9	1.0-3.0	.02	.20			
	13-20	---	---	18-40	1.25-1.40	0.2-2	0.09-0.12	0.0-2.9	0.5-1.0	.10	.24			
	20-37	---	---	27-60	1.20-1.35	0.06-0.2	0.13-0.16	3.0-5.9	0.0-0.5	.15	.28			
	37-50	---	---	27-60	1.20-1.35	0.06-0.2	0.13-0.16	3.0-5.9	0.0-0.5	.15	.28			
	50-61	---	---	40-60	1.15-1.30	0.06-0.2	0.14-0.16	6.0-8.9	0.0-0.5	.17	.17			
Haplustalfs-----	0-2	---	---	15-27	1.25-1.35	0.6-2	0.07-0.10	0.0-2.9	1.0-2.0	.15	.37	3	8	0
	2-5	---	---	15-27	1.25-1.35	0.6-2	0.07-0.10	0.0-2.9	1.0-2.0	.15	.37			
	5-10	---	---	18-35	1.25-1.35	0.2-0.6	0.09-0.11	0.0-2.9	0.5-1.0	.10	.24			
	10-24	---	---	27-50	1.20-1.40	0.06-0.6	0.07-0.11	3.0-5.9	0.5-1.0	.05	.17			
	24-41	---	---	27-50	1.20-1.40	0.06-0.6	0.07-0.11	3.0-5.9	0.5-1.0	.05	.17			
	41-55	---	---	27-50	1.15-1.25	0.06-0.2	0.07-0.12	3.0-5.9	0.0-0.5	.05	.17			
	55-60	---	---	27-50	1.15-1.25	0.06-0.2	0.07-0.12	3.0-5.9	0.0-0.5	.05	.17			
Rock outcrop-----	0-60	---	---	---	---	0.0000-0.06	---	---	---	---	---	-	8	0
804: Wauquie-----	0-3	---	---	15-27	1.25-1.40	0.6-2	0.08-0.11	0.0-2.9	1.0-2.0	.15	.24	5	3	86
	3-9	---	---	15-27	1.25-1.40	0.6-2	0.07-0.11	0.0-2.9	0.5-1.0	.10	.24			
	9-14	---	---	18-35	1.25-1.40	0.6-2	0.07-0.11	0.0-2.9	0.5-1.0	.10	.24			
	14-23	---	---	20-35	1.25-1.40	0.6-2	0.07-0.16	0.0-2.9	0.0-1.0	.15	.24			
	23-32	---	---	20-35	1.25-1.40	0.6-2	0.07-0.16	0.0-2.9	0.0-1.0	.15	.24			
	32-60	---	---	20-35	1.25-1.40	0.6-2	0.07-0.16	0.0-2.9	0.0-1.0	.15	.24			
Dolcan-----	0-4	---	---	27-35	1.25-1.40	0.2-0.6	0.13-0.16	0.0-2.9	1.0-2.0	.15	.24	2	8	0
	4-9	---	---	18-35	1.25-1.40	0.2-0.6	0.12-0.19	0.0-2.9	0.0-1.0	.15	.24			
	9-16	---	---	18-35	1.25-1.40	0.2-0.6	0.12-0.19	0.0-2.9	0.0-1.0	.15	.24			
	16-26	---	---	---	---	0.0000-0.2	---	---	---	---	---			
Rock outcrop-----	0-60	---	---	---	---	0.0000-0.06	---	---	---	---	---	-	8	0

Table 24.--Physical properties of the soils--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Permea- bility (Ksat)	Available water capacity	Linear extensi- bility	Organic matter	Erosion factors			Wind erodi- bility group	Wind erodi- bility index
										Kw	Kf	T		
	In.	Pct.	Pct.	Pct.	g/cc	In./hr.	In./in.	Pct.	Pct.					
805:														
Shawa-----	0-7	---	---	15-27	1.25-1.35	0.6-2	0.16-0.18	0.0-2.9	1.0-3.0	.28	.28	5	6	48
	7-19	---	---	15-27	1.25-1.35	0.6-2	0.16-0.18	0.0-2.9	1.0-3.0	.28	.28			
	19-38	---	---	18-35	1.30-1.40	0.2-0.6	0.16-0.19	0.0-2.9	0.5-2.0	.24	.24			
	38-60	---	---	27-35	1.25-1.40	0.2-0.6	0.13-0.15	0.0-2.9	0.5-1.0	.15	.24			
Fughes-----	0-1	---	---	15-27	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	5	6	48
	1-8	---	---	15-27	1.30-1.40	0.6-2	0.16-0.18	0.0-2.9	2.0-4.0	.24	.24			
	8-27	---	---	35-40	1.25-1.35	0.2-0.6	0.18-0.20	3.0-5.9	0.5-1.0	.24	.24			
	27-45	---	---	35-50	1.15-1.40	0.06-0.2	0.14-0.16	6.0-8.9	0.5-1.0	.17	.17			
	45-61	---	---	35-60	1.25-1.35	0.06-0.2	0.14-0.16	6.0-8.9	0.0-0.5	.17	.17			
806:														
Shawa-----	0-7	---	---	15-27	1.25-1.35	0.6-2	0.16-0.18	0.0-2.9	1.0-3.0	.28	.28	5	6	48
	7-19	---	---	15-27	1.25-1.35	0.6-2	0.16-0.18	0.0-2.9	1.0-3.0	.28	.28			
	19-38	---	---	18-35	1.30-1.40	0.2-0.6	0.16-0.19	0.0-2.9	0.5-2.0	.24	.24			
	38-60	---	---	27-35	1.25-1.40	0.2-0.6	0.13-0.15	0.0-2.9	0.5-1.0	.15	.24			
Fughes-----	0-1	---	---	15-27	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	5	6	48
	1-8	---	---	15-27	1.30-1.40	0.6-2	0.16-0.18	0.0-2.9	2.0-4.0	.24	.24			
	8-27	---	---	35-40	1.25-1.35	0.2-0.6	0.18-0.20	3.0-5.9	0.5-1.0	.24	.24			
	27-45	---	---	35-50	1.15-1.40	0.06-0.2	0.14-0.16	6.0-8.9	0.5-1.0	.17	.17			
	45-61	---	---	35-60	1.25-1.35	0.06-0.2	0.14-0.16	6.0-8.9	0.0-0.5	.17	.17			
809:														
Argiustolls-----	0-1	---	---	18-27	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	3	8	0
	1-4	---	---	18-27	1.25-1.40	0.6-2	0.04-0.07	0.0-2.9	1.0-4.0	.05	.28			
	4-7	---	---	18-40	1.25-1.40	0.2-0.6	0.04-0.07	0.0-2.9	1.0-3.0	.02	.20			
	7-13	---	---	18-40	1.25-1.40	0.2-0.6	0.04-0.07	0.0-2.9	1.0-3.0	.02	.20			
	13-20	---	---	18-40	1.25-1.40	0.2-0.6	0.09-0.12	0.0-2.9	0.5-1.0	.10	.24			
	20-37	---	---	27-60	1.20-1.35	0.06-0.2	0.13-0.16	3.0-5.9	0.0-0.5	.15	.28			
	37-50	---	---	27-60	1.20-1.35	0.06-0.2	0.13-0.16	3.0-5.9	0.0-0.5	.15	.28			
	50-61	---	---	40-60	1.15-1.30	0.06-0.2	0.14-0.16	6.0-8.9	0.0-0.5	.17	.17			
Haplustalfs-----	0-2	---	---	15-27	1.25-1.35	0.6-2	0.07-0.10	0.0-2.9	1.0-2.0	.15	.37	3	8	0
	2-5	---	---	15-27	1.25-1.35	0.6-2	0.07-0.10	0.0-2.9	1.0-2.0	.15	.37			
	5-10	---	---	18-35	1.25-1.35	0.2-0.6	0.09-0.11	0.0-2.9	0.5-1.0	.10	.24			
	10-24	---	---	27-50	1.20-1.40	0.06-0.6	0.07-0.11	3.0-5.9	0.5-1.0	.05	.17			
	24-41	---	---	27-50	1.20-1.40	0.06-0.6	0.07-0.11	3.0-5.9	0.5-1.0	.05	.17			
	41-55	---	---	27-50	1.15-1.25	0.06-0.2	0.07-0.12	3.0-5.9	0.0-0.5	.05	.17			
	55-60	---	---	27-50	1.15-1.25	0.06-0.2	0.07-0.12	3.0-5.9	0.0-0.5	.05	.17			
813:														
Fughes-----	0-7	---	---	27-35	1.15-1.30	0.2-0.6	0.17-0.21	0.0-2.9	2.0-4.0	.24	.24	5	7	38
	7-26	---	---	35-40	1.25-1.35	0.2-0.6	0.18-0.20	3.0-5.9	0.5-1.0	.24	.24			
	26-44	---	---	35-50	1.15-1.40	0.06-0.2	0.14-0.16	6.0-8.9	0.5-1.0	.17	.17			
	44-60	---	---	35-60	1.25-1.35	0.06-0.2	0.14-0.16	6.0-8.9	0.0-0.5	.17	.17			
814:														
Leaps-----	0-3	---	---	27-40	1.25-1.35	0.2-0.6	0.17-0.21	3.0-5.9	2.0-4.0	.17	.17	5	6	48
	3-7	---	---	27-40	1.25-1.35	0.2-0.6	0.17-0.21	3.0-5.9	2.0-4.0	.17	.17			
	7-14	---	---	27-40	1.25-1.35	0.2-0.6	0.17-0.21	3.0-5.9	2.0-4.0	.17	.17			
	14-22	---	---	35-50	1.25-1.35	0.06-0.2	0.13-0.20	6.0-8.9	0.5-1.0	.24	.24			
	22-60	---	---	35-50	1.25-1.35	0.06-0.2	0.13-0.20	6.0-8.9	0.5-1.0	.24	.24			
Hofly-----	0-7	---	---	20-27	1.15-1.25	0.6-2	0.14-0.18	0.0-2.9	2.0-4.0	.24	.24	5	6	48
	7-30	---	---	35-40	1.25-1.35	0.06-0.2	0.16-0.19	3.0-5.9	2.0-3.0	.20	.20			
	30-60	---	---	35-45	1.15-1.25	0.06-0.2	0.14-0.18	6.0-8.9	0.5-1.0	.17	.17			
815:														
Behanco-----	0-2	---	---	18-27	1.25-1.35	0.6-2	0.13-0.16	0.0-2.9	2.0-4.0	.24	.24	3	6	48
	2-17	---	---	18-27	1.25-1.35	0.6-2	0.08-0.10	0.0-2.9	2.0-4.0	.10	.24			
	17-25	---	---	18-27	1.25-1.35	0.6-2	0.10-0.12	0.0-2.9	0.0-1.0	.15	.37			
	25-33	---	---	18-27	1.25-1.35	0.6-2	0.10-0.12	0.0-2.9	0.0-1.0	.15	.37			
	33-45	---	---	0-10	1.40-1.50	6-20	0.04-0.05	0.0-2.9	0.0-0.5	.05	.20			
	45-47	---	---	40-60	1.15-1.25	0.06-0.2	0.14-0.16	6.0-8.9	0.0-0.5	.17	.17			
	47-59	---	---	---	---	0.0000-0.06	---	---	---	---	---			
	59-63	---	---	---	---	0.0000-0.06	---	---	---	---	---			
Powderhorn family---	0-1	---	---	18-27	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	3	6	48
	1-4	---	---	18-27	1.25-1.35	0.6-2	0.15-0.18	0.0-2.9	2.0-4.0	.24	.24			
	4-12	---	---	18-27	1.25-1.35	0.6-2	0.15-0.18	0.0-2.9	2.0-4.0	.24	.24			
	12-24	---	---	18-27	1.25-1.35	0.6-2	0.13-0.16	0.0-2.9	0.5-2.0	.37	.37			
	24-32	---	---	35-50	1.15-1.25	0.06-0.2	0.10-0.16	3.0-5.9	0.0-0.5	.10	.17			
	32-41	---	---	40-60	1.15-1.25	0.06-0.2	0.14-0.16	6.0-8.9	0.0-0.5	.17	.17			
	41-60	---	---	40-60	1.15-1.25	0.06-0.2	0.14-0.16	6.0-8.9	0.0-0.5	.17	.17			
	60-64	---	---	---	---	0.0000-0.06	---	---	---	---	---			

Table 24.--Physical properties of the soils--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Permea- bility (Ksat)	Available water capacity	Linear extensi- bility	Organic matter	Erosion factors			Wind erodi- bility group	Wind erodi- bility index
										Kw	Kf	T		
	In.	Pct.	Pct.	Pct.	g/cc	In./hr.	In./in.	Pct.	Pct.					
816: Storm-----	0-2	---	---	20-27	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	5	8	0
	2-6	---	---	20-27	1.25-1.35	0.6-2	0.04-0.06	0.0-2.9	1.0-2.0	.05	.37			
	6-13	---	---	20-27	1.25-1.35	0.6-2	0.04-0.06	0.0-2.9	1.0-2.0	.05	.37			
	13-19	---	---	20-35	1.25-1.35	0.2-0.6	0.04-0.06	0.0-2.9	0.5-1.0	.05	.24			
	19-31	---	---	20-35	1.25-1.35	0.2-0.6	0.09-0.11	0.0-2.9	0.0-0.5	.10	.28			
	31-40	---	---	20-35	1.25-1.35	0.2-0.6	0.05-0.07	0.0-2.9	0.0-0.5	.05	.28			
	40-48	---	---	20-27	1.25-1.35	0.6-2	0.08-0.10	0.0-2.9	0.0-0.5	.15	.43			
	48-56	---	---	20-27	1.25-1.35	0.2-0.6	0.05-0.07	0.0-2.9	0.0-0.5	.05	.43			
	56-62	---	---	27-35	1.25-1.35	0.2-0.6	0.05-0.07	0.0-2.9	0.0-0.5	.05	.43			
826: Ute-----	0-2	---	---	20-27	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	5	6	48
	2-7	---	---	20-27	1.25-1.30	0.6-2	0.15-0.18	0.0-2.9	3.0-6.0	.20	.20			
	7-13	---	---	35-50	1.25-1.30	0.06-0.2	0.16-0.18	6.0-8.9	1.0-2.0	.20	.20			
	13-28	---	---	35-50	1.25-1.30	0.06-0.2	0.16-0.18	6.0-8.9	1.0-2.0	.20	.20			
	28-45	---	---	35-50	1.25-1.30	0.06-0.2	0.16-0.18	6.0-8.9	1.0-2.0	.20	.20			
	45-62	---	---	20-35	1.30-1.40	0.2-2	0.10-0.14	0.0-2.9	0.0-1.0	.20	.37			
Frisco-----	0-2	---	---	15-27	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	3	6	48
	2-5	---	---	15-27	1.30-1.35	0.6-2	0.10-0.14	0.0-2.9	0.5-1.0	.20	.37			
	5-11	---	---	15-27	1.30-1.35	0.6-2	0.13-0.16	0.0-2.9	0.5-1.0	.37	.37			
	11-19	---	---	15-27	1.35-1.40	0.6-2	0.10-0.14	0.0-2.9	0.5-1.0	.20	.37			
	19-48	---	---	20-35	1.35-1.40	0.6-2	0.06-0.11	0.0-2.9	0.0-0.5	.05	.43			
	48-62	---	---	18-27	1.35-1.40	0.6-2	0.06-0.11	0.0-2.9	0.0-0.5	.05	.43			
830: Dressel-----	0-2	---	---	20-27	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	5	5	56
	2-8	---	---	20-27	1.25-1.35	0.6-2	0.12-0.14	0.0-2.9	2.0-4.0	.15	.24			
	8-19	---	---	20-27	1.25-1.35	0.6-2	0.06-0.09	0.0-2.9	2.0-4.0	.10	.24			
	19-23	---	---	20-27	1.25-1.35	0.6-2	0.06-0.09	0.0-2.9	0.5-1.0	.05	.20			
	23-30	---	---	20-27	1.25-1.35	0.6-2	0.06-0.09	0.0-2.9	0.5-1.0	.05	.20			
	30-36	---	---	20-30	1.25-1.35	0.6-2	0.06-0.11	0.0-2.9	0.5-1.0	.05	.37			
	36-45	---	---	20-30	1.25-1.35	0.6-2	0.06-0.11	0.0-2.9	0.5-1.0	.05	.37			
	45-53	---	---	20-30	1.25-1.35	0.6-2	0.06-0.11	0.0-2.9	0.5-1.0	.05	.37			
	53-62	---	---	20-35	1.25-1.35	0.6-2	0.06-0.11	0.0-2.9	0.0-0.5	.15	.43			
Jersey-----	0-1	---	---	20-27	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	5	8	0
	1-8	---	---	20-27	1.25-1.35	0.6-2	0.07-0.09	0.0-2.9	3.0-5.0	.05	.20			
	8-13	---	---	27-40	1.25-1.35	0.2-0.6	0.09-0.11	0.0-2.9	1.0-3.0	.05	.20			
	13-18	---	---	35-45	1.15-1.30	0.06-0.2	0.07-0.11	3.0-5.9	0.5-1.0	.05	.17			
	18-26	---	---	35-45	1.15-1.30	0.06-0.2	0.07-0.11	3.0-5.9	0.5-1.0	.05	.17			
	26-37	---	---	35-45	1.15-1.30	0.06-0.2	0.07-0.11	3.0-5.9	0.5-1.0	.05	.17			
	37-47	---	---	35-45	1.15-1.30	0.06-0.2	0.07-0.11	3.0-5.9	0.0-0.5	.05	.17			
	47-61	---	---	35-45	1.15-1.30	0.06-0.2	0.07-0.11	3.0-5.9	0.0-0.5	.05	.17			
832: Storm-----	0-2	---	---	20-27	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	5	8	0
	2-6	---	---	20-27	1.25-1.35	0.6-2	0.04-0.06	0.0-2.9	1.0-2.0	.05	.37			
	6-13	---	---	20-27	1.25-1.35	0.6-2	0.04-0.06	0.0-2.9	1.0-2.0	.05	.37			
	13-19	---	---	20-35	1.25-1.35	0.2-0.6	0.04-0.06	0.0-2.9	0.5-1.0	.05	.24			
	19-31	---	---	20-35	1.25-1.35	0.2-0.6	0.09-0.11	0.0-2.9	0.0-0.5	.10	.28			
	31-40	---	---	20-35	1.25-1.35	0.2-0.6	0.05-0.07	0.0-2.9	0.0-0.5	.05	.28			
	40-48	---	---	20-27	1.25-1.35	0.6-2	0.08-0.10	0.0-2.9	0.0-0.5	.15	.43			
	48-56	---	---	20-27	1.25-1.35	0.2-0.6	0.05-0.07	0.0-2.9	0.0-0.5	.05	.43			
	56-62	---	---	27-35	1.25-1.35	0.2-0.6	0.05-0.07	0.0-2.9	0.0-0.5	.05	.43			
834: Haycamp-----	0-1	---	---	27-35	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	5	6	48
	1-5	---	---	27-35	1.25-1.35	0.2-0.6	0.16-0.18	0.0-2.9	2.0-4.0	.10	.17			
	5-13	---	---	35-50	1.15-1.25	0.06-0.2	0.11-0.16	3.0-5.9	0.5-1.0	.10	.17			
	13-21	---	---	35-50	1.15-1.25	0.06-0.2	0.11-0.16	3.0-5.9	0.5-1.0	.10	.17			
	21-30	---	---	35-50	1.15-1.25	0.06-0.2	0.13-0.18	6.0-8.9	0.0-0.5	.17	.28			
	30-38	---	---	35-50	1.15-1.25	0.06-0.2	0.13-0.18	6.0-8.9	0.0-0.5	.17	.28			
	38-56	---	---	35-60	1.15-1.25	0.06-0.2	0.10-0.16	3.0-5.9	0.0-0.5	.10	.17			
	56-61	---	---	35-50	1.25-1.35	0.06-0.2	0.09-0.11	0.0-2.9	0.0-0.5	.10	.28			
Jersey-----	0-1	---	---	20-27	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	5	6	48
	1-8	---	---	20-27	1.25-1.35	0.6-2	0.07-0.09	0.0-2.9	3.0-5.0	.05	.20			
	8-13	---	---	27-40	1.25-1.35	0.2-0.6	0.09-0.11	0.0-2.9	1.0-3.0	.05	.20			
	13-18	---	---	35-45	1.15-1.30	0.06-0.2	0.07-0.11	3.0-5.9	0.5-1.0	.05	.17			
	18-26	---	---	35-45	1.15-1.30	0.06-0.2	0.07-0.11	3.0-5.9	0.5-1.0	.05	.17			
	26-37	---	---	35-45	1.15-1.30	0.06-0.2	0.07-0.11	3.0-5.9	0.5-1.0	.05	.17			
	37-47	---	---	35-45	1.15-1.30	0.06-0.2	0.07-0.11	3.0-5.9	0.0-0.5	.05	.17			
	47-61	---	---	35-45	1.15-1.30	0.06-0.2	0.07-0.11	3.0-5.9	0.0-0.5	.05	.17			
835: Brumley-----	0-2	---	---	18-27	1.20-1.30	0.6-2	0.14-0.16	0.0-2.9	1.0-2.0	.28	.28	5	4L	86
	2-17	---	---	27-35	1.30-1.40	0.2-0.6	0.16-0.19	0.0-2.9	0.5-1.0	.24	.24			
	17-25	---	---	27-35	1.30-1.40	0.2-0.6	0.16-0.19	0.0-2.9	0.5-1.0	.24	.24			
	25-40	---	---	20-35	1.25-1.40	0.6-2	0.15-0.17	0.0-2.9	0.0-0.5	.43	.43			
	40-60	---	---	20-35	1.25-1.40	0.6-2	0.15-0.17	0.0-2.9	0.0-0.5	.43	.43			

Table 24.--Physical properties of the soils--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Permea- bility (Ksat)	Available water capacity	Linear extensi- bility	Organic matter	Erosion factors			Wind erodi- bility group	Wind erodi- bility index
										Kw	Kf	T		
	In.	Pct.	Pct.	Pct.	g/cc	In./hr.	In./in.	Pct.	Pct.					
860: Granath-----	0-2	---	---	15-27	1.30-1.40	0.6-2	0.18-0.20	0.0-2.9	2.0-4.0	.24	.24	5	6	48
	2-10	---	---	15-27	1.30-1.40	0.6-2	0.18-0.20	0.0-2.9	2.0-4.0	.24	.24			
	10-15	---	---	18-35	1.15-1.40	0.2-2	0.14-0.21	0.0-2.9	0.5-1.0	.24	.24			
	15-20	---	---	18-35	1.15-1.40	0.2-2	0.14-0.21	0.0-2.9	0.5-1.0	.24	.24			
	20-28	---	---	18-40	1.25-1.40	0.2-2	0.14-0.21	0.0-2.9	0.5-1.0	.24	.24			
	28-40	---	---	18-40	1.15-1.40	0.2-2	0.14-0.21	0.0-2.9	0.5-1.0	.24	.24			
	40-49	---	---	18-40	1.15-1.40	0.2-0.6	0.14-0.21	0.0-2.9	0.0-0.5	.28	.28			
	49-60	---	---	18-40	1.25-1.40	0.2-0.6	0.14-0.21	0.0-2.9	0.0-0.5	.28	.28			
Nortez-----	0-3	---	---	15-27	1.30-1.40	0.6-2	0.15-0.18	0.0-2.9	1.0-3.0	.28	.28	2	6	48
	3-10	---	---	27-40	1.35-1.45	0.2-0.6	0.17-0.20	3.0-5.9	1.0-2.0	.20	.20			
	10-23	---	---	35-60	1.25-1.35	0.06-0.2	0.15-0.18	6.0-8.9	0.5-1.0	.24	.24			
	23-28	---	---	35-60	1.25-1.35	0.06-0.2	0.15-0.18	6.0-8.9	0.5-1.0	.24	.24			
	28-32	---	---	35-60	1.25-1.35	0.06-0.2	0.15-0.18	6.0-8.9	0.5-1.0	.24	.24			
	32-42	---	---	---	---	0.0000-0.06	---	---	---	---	---			
861: Morapos-----	0-3	---	---	18-27	1.25-1.35	0.6-2	0.13-0.15	0.0-2.9	1.0-3.0	.28	.28	5	6	48
	3-8	---	---	35-45	1.20-1.30	0.06-0.2	0.14-0.16	3.0-5.9	1.0-3.0	.24	.24			
	8-12	---	---	40-45	1.15-1.25	0.06-0.2	0.14-0.16	3.0-5.9	0.5-1.0	.17	.17			
	12-22	---	---	40-45	1.15-1.25	0.06-0.2	0.14-0.16	3.0-5.9	0.5-1.0	.17	.17			
	22-37	---	---	27-35	1.25-1.35	0.2-0.6	0.18-0.20	0.0-2.9	0.0-0.5	.28	.28			
	37-60	---	---	27-35	1.25-1.35	0.2-0.6	0.18-0.20	0.0-2.9	0.0-0.5	.28	.28			
862: Granath-----	0-2	---	---	15-27	1.30-1.40	0.6-2	0.18-0.20	0.0-2.9	2.0-4.0	.24	.24	5	6	48
	2-10	---	---	15-27	1.30-1.40	0.6-2	0.18-0.20	0.0-2.9	2.0-4.0	.24	.24			
	10-15	---	---	18-35	1.15-1.40	0.2-2	0.14-0.21	0.0-2.9	0.5-1.0	.24	.24			
	15-20	---	---	18-35	1.15-1.40	0.2-2	0.14-0.21	0.0-2.9	0.5-1.0	.24	.24			
	20-28	---	---	18-40	1.25-1.40	0.2-2	0.14-0.21	0.0-2.9	0.5-1.0	.24	.24			
	28-40	---	---	18-40	1.15-1.40	0.2-2	0.14-0.21	0.0-2.9	0.5-1.0	.24	.24			
	40-60	---	---	18-40	1.25-1.40	0.2-0.6	0.14-0.21	0.0-2.9	0.0-0.5	.28	.28			
Dolores-----	0-1	---	---	15-27	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	5	6	48
	1-3	---	---	15-27	1.25-1.35	0.6-2	0.13-0.16	0.0-2.9	2.0-4.0	.24	.24			
	3-8	---	---	15-27	1.25-1.35	0.6-2	0.13-0.16	0.0-2.9	2.0-4.0	.24	.24			
	8-10	---	---	35-40	1.30-1.40	0.06-0.2	0.06-0.07	0.0-2.9	0.5-1.0	.05	.24			
	10-15	---	---	35-40	1.30-1.40	0.06-0.2	0.06-0.07	0.0-2.9	0.5-1.0	.05	.24			
	15-24	---	---	35-40	1.30-1.40	0.06-0.2	0.06-0.07	0.0-2.9	0.5-1.0	.05	.24			
	24-45	---	---	35-55	1.20-1.30	0.06-0.2	0.05-0.06	0.0-2.9	0.0-0.5	.02	.17			
	45-49	---	---	40-55	1.20-1.30	0.06-0.2	0.05-0.06	0.0-2.9	0.0-0.5	.02	.17			
	49-61	---	---	27-45	1.15-1.35	0.06-0.2	0.05-0.06	0.0-2.9	0.0-0.5	.02	.17			
Fivepine-----	0-3	---	---	15-27	1.30-1.40	0.6-2	0.13-0.17	0.0-2.9	1.0-3.0	.15	.28	1	6	48
	3-9	---	---	27-40	1.20-1.30	0.2-0.6	0.11-0.13	3.0-5.9	1.0-2.0	.15	.24			
	9-12	---	---	35-50	1.20-1.30	0.06-0.6	0.11-0.13	3.0-5.9	0.0-1.0	.15	.24			
	12-15	---	---	40-50	1.15-1.30	0.06-0.2	0.08-0.10	3.0-5.9	0.0-0.5	.10	.17			
	15-19	---	---	---	---	0.0000-0.06	---	---	---	---	---			
863: Granath-----	0-2	---	---	15-27	1.30-1.40	0.6-2	0.18-0.20	0.0-2.9	2.0-4.0	.24	.24	5	6	48
	2-10	---	---	15-27	1.30-1.40	0.6-2	0.18-0.20	0.0-2.9	2.0-4.0	.24	.24			
	10-15	---	---	18-35	1.15-1.40	0.2-2	0.14-0.21	0.0-2.9	0.5-1.0	.24	.24			
	15-20	---	---	18-40	1.15-1.40	0.2-2	0.14-0.21	0.0-2.9	0.5-1.0	.24	.24			
	20-28	---	---	18-40	1.25-1.40	0.2-2	0.14-0.21	0.0-2.9	0.5-1.0	.24	.24			
	28-40	---	---	18-40	1.15-1.40	0.2-2	0.14-0.21	0.0-2.9	0.5-1.0	.24	.24			
	40-60	---	---	18-40	1.25-1.40	0.2-0.6	0.14-0.21	0.0-2.9	0.0-0.5	.28	.28			
Ormiston-----	0-7	---	---	15-27	1.25-1.35	0.6-2	0.13-0.16	0.0-2.9	2.0-4.0	.24	.24	3	6	48
	7-24	---	---	35-60	1.35-1.40	0.06-0.2	0.07-0.11	3.0-5.9	0.0-0.5	.10	.28			
	24-32	---	---	35-60	1.35-1.40	0.06-0.2	0.07-0.11	3.0-5.9	0.0-0.5	.10	.28			
	32-44	---	---	27-40	1.30-1.40	0.2-0.6	0.13-0.16	3.0-5.9	0.0-0.5	.15	.28			
	44-54	---	---	---	---	0.0000-0.06	---	---	---	---	---			
Fivepine-----	0-3	---	---	15-27	1.30-1.40	0.6-2	0.13-0.17	0.0-2.9	1.0-3.0	.15	.28	1	6	48
	3-9	---	---	27-40	1.20-1.30	0.2-0.6	0.11-0.13	3.0-5.9	1.0-2.0	.15	.24			
	9-12	---	---	35-50	1.20-1.30	0.06-0.6	0.11-0.13	3.0-5.9	0.0-1.0	.15	.24			
	12-15	---	---	40-50	1.15-1.30	0.06-0.2	0.08-0.10	3.0-5.9	0.0-0.5	.10	.17			
	15-25	---	---	---	---	0.0000-0.06	---	---	---	---	---			
890: Tamarron-----	0-3	---	---	15-27	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	3	6	48
	3-9	---	---	15-27	1.30-1.40	0.6-2	0.14-0.16	0.0-2.9	0.5-1.0	.37	.37			
	9-20	---	---	18-35	1.35-1.45	0.2-0.6	0.08-0.12	0.0-2.9	0.5-1.0	.15	.37			
	20-30	---	---	18-35	1.35-1.45	0.2-0.6	0.08-0.12	0.0-2.9	0.5-1.0	.15	.37			
	30-39	---	---	10-27	1.35-1.40	0.6-2	0.06-0.10	0.0-2.9	0.0-0.5	.15	.43			
	39-49	---	---	---	---	0.06-0.2	---	---	---	---	---			

Table 24.--Physical properties of the soils--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Permea- bility (Ksat)	Available water capacity	Linear extensi- bility	Organic matter	Erosion factors			Wind erodi- bility group	Wind erodi- bility index
										Kw	Kf	T		
	In.	Pct.	Pct.	Pct.	g/cc	In./hr.	In./in.	Pct.	Pct.					
890: Frisco-----	0-2	---	---	15-27	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	3	6	48
	2-5	---	---	15-27	1.30-1.35	0.6-2	0.10-0.14	0.0-2.9	0.5-1.0	.37	.37			
	5-11	---	---	15-27	1.30-1.35	0.6-2	0.13-0.16	0.0-2.9	0.5-1.0	.37	.37			
	11-19	---	---	15-27	1.35-1.40	0.6-2	0.10-0.14	0.0-2.9	0.5-1.0	.20	.37			
	19-48	---	---	20-35	1.35-1.40	0.6-2	0.06-0.11	0.0-2.9	0.0-0.5	.05	.43			
	48-62	---	---	18-27	1.35-1.40	0.6-2	0.06-0.11	0.0-2.9	0.0-0.5	.05	.43			
891: Tamarron-----	0-3	---	---	15-27	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	3	6	48
	3-9	---	---	15-27	1.30-1.40	0.6-2	0.14-0.16	0.0-2.9	0.5-1.0	.37	.37			
	9-20	---	---	18-35	1.35-1.45	0.2-0.6	0.08-0.12	0.0-2.9	0.5-1.0	.15	.37			
	20-30	---	---	18-35	1.35-1.45	0.2-0.6	0.08-0.12	0.0-2.9	0.5-1.0	.15	.37			
	30-39	---	---	10-27	1.35-1.40	0.6-2	0.06-0.10	0.0-2.9	0.0-0.5	.15	.43			
	39-49	---	---	---	---	0.06-0.2	---	---	---	---	---			
Frisco-----	0-2	---	---	15-27	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	3	6	48
	2-5	---	---	15-27	1.30-1.35	0.6-2	0.10-0.14	0.0-2.9	0.5-1.0	.37	.37			
	5-11	---	---	15-27	1.30-1.35	0.6-2	0.13-0.16	0.0-2.9	0.5-1.0	.37	.37			
	11-19	---	---	15-27	1.35-1.40	0.6-2	0.10-0.14	0.0-2.9	0.5-1.0	.20	.37			
	19-48	---	---	20-35	1.35-1.40	0.6-2	0.06-0.11	0.0-2.9	0.0-0.5	.05	.43			
	48-62	---	---	18-27	1.35-1.40	0.6-2	0.06-0.11	0.0-2.9	0.0-0.5	.05	.43			
901: Granath-----	0-2	---	---	15-27	1.30-1.40	0.6-2	0.18-0.20	0.0-2.9	2.0-4.0	.24	.24	5	6	48
	2-10	---	---	15-27	1.30-1.40	0.6-2	0.18-0.20	0.0-2.9	2.0-4.0	.24	.24			
	10-15	---	---	18-35	1.15-1.40	0.2-2	0.14-0.21	0.0-2.9	0.5-1.0	.24	.24			
	15-20	---	---	18-35	1.15-1.40	0.2-2	0.14-0.21	0.0-2.9	0.5-1.0	.24	.24			
	20-28	---	---	18-40	1.25-1.40	0.2-2	0.14-0.21	0.0-2.9	0.5-1.0	.24	.24			
	28-40	---	---	18-40	1.15-1.40	0.2-2	0.14-0.21	0.0-2.9	0.5-1.0	.24	.24			
	40-60	---	---	18-40	1.25-1.40	0.2-0.6	0.14-0.21	0.0-2.9	0.0-0.5	.28	.28			
Zoltay-----	0-6	---	---	27-35	1.20-1.30	0.2-0.6	0.17-0.19	0.0-2.9	3.0-6.0	.15	.15	5	6	48
	6-14	---	---	27-35	1.20-1.30	0.2-0.6	0.17-0.19	0.0-2.9	3.0-6.0	.15	.15			
	14-23	---	---	35-45	1.30-1.40	0.06-0.2	0.13-0.15	3.0-5.9	1.0-3.0	.10	.20			
	23-29	---	---	35-45	1.30-1.40	0.06-0.2	0.13-0.15	3.0-5.9	0.5-2.0	.10	.20			
	29-46	---	---	27-45	1.30-1.40	0.06-0.6	0.10-0.14	3.0-5.9	0.0-0.5	.15	.24			
	46-60	---	---	27-45	1.30-1.40	0.06-0.6	0.10-0.14	3.0-5.9	0.0-0.5	.15	.24			
Nortez-----	0-3	---	---	15-27	1.30-1.40	0.6-2	0.15-0.18	0.0-2.9	1.0-3.0	.28	.28	2	6	48
	3-10	---	---	27-40	1.35-1.45	0.2-0.6	0.17-0.20	3.0-5.9	1.0-2.0	.20	.20			
	10-32	---	---	35-60	1.25-1.35	0.06-0.2	0.15-0.18	6.0-8.9	0.5-1.0	.24	.24			
	32-42	---	---	---	---	0.0000-0.06	---	---	---	---	---			
903: Anvik-----	0-1	---	---	15-25	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	5	5	56
	1-7	---	---	15-25	1.25-1.40	0.6-2	0.14-0.18	0.0-2.9	2.0-4.0	.24	.24			
	7-11	---	---	15-25	1.25-1.40	0.6-2	0.14-0.18	0.0-2.9	2.0-4.0	.24	.24			
	11-22	---	---	10-25	1.25-1.50	0.6-6	0.12-0.17	0.0-2.9	0.5-1.0	.28	.28			
	22-31	---	---	20-35	1.25-1.35	0.6-2	0.18-0.20	0.0-2.9	0.0-1.0	.28	.28			
	31-45	---	---	20-35	1.25-1.35	0.6-2	0.18-0.20	0.0-2.9	0.0-1.0	.28	.28			
	45-61	---	---	20-35	1.45-1.55	0.6-2	0.12-0.15	0.0-2.9	0.0-0.5	.28	.28			
904: Beje-----	0-6	---	---	10-20	1.35-1.45	2-6	0.14-0.17	0.0-2.9	1.0-4.0	.24	.24	1	3	86
	6-14	---	---	18-35	1.25-1.35	0.6-2	0.14-0.16	0.0-2.9	0.5-1.0	.20	.20			
	14-18	---	---	---	---	0.0000-0.06	---	---	---	---	---			
905: Cryaquolls-----	0-7	---	---	10-27	1.25-1.40	0.6-2	0.14-0.17	0.0-2.9	2.0-6.0	.20	.20	5	6	48
	7-12	---	---	10-27	1.25-1.40	0.6-2	0.14-0.17	0.0-2.9	2.0-6.0	.20	.20			
	12-60	---	---	10-32	1.25-1.50	0.2-6	0.05-0.18	0.0-2.9	0.0-1.0	.20	.28			
906: Archuleta-----	0-3	---	---	18-27	1.25-1.40	0.6-2	0.13-0.15	0.0-2.9	0.0-1.0	.37	.37	2	6	48
	3-16	---	---	18-35	1.30-1.40	0.6-2	0.13-0.18	0.0-2.9	0.0-0.5	.24	.43			
	16-26	---	---	---	---	0.0000-0.06	---	---	---	---	---			
907: Archuleta-----	0-3	---	---	18-27	1.25-1.40	0.6-2	0.13-0.15	0.0-2.9	0.0-1.0	.37	.37	2	6	48
	3-16	---	---	18-35	1.30-1.40	0.6-2	0.13-0.18	0.0-2.9	0.0-0.5	.24	.43			
	16-26	---	---	---	---	0.0000-0.06	---	---	---	---	---			
Sanchez-----	0-5	---	---	20-27	1.30-1.40	0.6-2	0.07-0.09	0.0-2.9	2.0-3.0	.05	.17	1	8	0
	5-11	---	---	20-35	1.30-1.40	0.2-0.6	0.08-0.10	0.0-2.9	0.0-1.0	.10	.24			
	11-15	---	---	20-35	1.25-1.35	0.2-0.6	0.10-0.12	0.0-2.9	0.0-0.5	.15	.24			
	15-19	---	---	---	---	0.0000-0.06	---	---	---	---	---			
908: Adel-----	0-14	---	---	18-27	1.25-1.40	0.6-2	0.16-0.18	0.0-2.9	3.0-7.0	.20	.20	5	6	48
	14-24	---	---	18-27	1.25-1.40	0.6-2	0.16-0.18	0.0-2.9	2.0-5.0	.20	.20			
	24-36	---	---	18-30	1.25-1.40	0.6-2	0.16-0.20	0.0-2.9	2.0-5.0	.20	.20			
	36-60	---	---	18-35	1.25-1.40	0.2-2	0.12-0.20	0.0-2.9	0.5-1.0	.15	.24			

Table 24.--Physical properties of the soils--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Permea- bility (Ksat)	Available water capacity	Linear extensi- bility	Organic matter	Erosion factors			Wind erodi- bility group	Wind erodi- bility index
										Kw	Kf	T		
	In.	Pct.	Pct.	Pct.	g/cc	In./hr.	In./in.	Pct.	Pct.					
909: Adel-----	0-14	---	---	18-27	1.25-1.40	0.6-2	0.16-0.18	0.0-2.9	3.0-7.0	.20	.20	5	6	48
	14-24	---	---	18-27	1.25-1.40	0.6-2	0.16-0.18	0.0-2.9	2.0-5.0	.20	.20			
	24-36	---	---	18-30	1.25-1.40	0.6-2	0.16-0.20	0.0-2.9	2.0-5.0	.20	.20			
	36-60	---	---	18-35	1.25-1.40	0.2-2	0.12-0.20	0.0-2.9	0.5-1.0	.15	.24			
917: Chris-----	0-1	---	---	20-25	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	5	8	0
	1-13	---	---	20-25	1.35-1.40	0.6-2	0.07-0.09	0.0-2.9	0.5-1.0	.15	.43			
	13-23	---	---	20-35	1.30-1.40	0.2-0.6	0.11-0.16	0.0-2.9	0.0-0.5	.15	.24			
	23-31	---	---	20-35	1.30-1.40	0.2-2	0.08-0.12	0.0-2.9	0.0-0.5	.10	.24			
	31-42	---	---	30-50	1.30-1.40	0.06-0.2	0.07-0.11	3.0-5.9	0.0-0.5	.05	.17			
	42-61	---	---	20-35	1.30-1.40	0.2-2	0.08-0.12	0.0-2.9	0.0-0.5	.10	.24			
919: Clayburn-----	0-6	---	---	15-25	1.25-1.40	0.6-2	0.14-0.17	0.0-2.9	2.0-4.0	.24	.24	5	5	56
	6-10	---	---	15-25	1.25-1.40	0.6-2	0.14-0.17	0.0-2.9	2.0-4.0	.24	.24			
	10-16	---	---	18-35	1.30-1.40	0.2-0.6	0.16-0.18	0.0-2.9	1.0-2.0	.20	.20			
	16-31	---	---	18-35	1.30-1.40	0.2-0.6	0.16-0.18	0.0-2.9	1.0-2.0	.20	.20			
	31-60	---	---	15-30	1.25-1.35	0.6-2	0.13-0.16	0.0-2.9	0.5-1.0	.20	.20			
920: Clayburn-----	0-18	---	---	15-25	1.25-1.40	0.6-2	0.14-0.17	0.0-2.9	2.0-4.0	.24	.24	5	5	56
	18-43	---	---	18-35	1.30-1.40	0.2-0.6	0.16-0.18	0.0-2.9	1.0-2.0	.20	.20			
	43-60	---	---	15-30	1.25-1.35	0.6-2	0.13-0.16	0.0-2.9	0.5-1.0	.20	.20			
926: Ustolls-----	0-11	---	---	18-27	1.25-1.35	0.6-2	0.13-0.15	0.0-2.9	2.0-3.0	.15	.28	3	6	48
	11-18	---	---	18-27	1.25-1.35	0.6-2	0.13-0.15	0.0-2.9	2.0-3.0	.15	.28			
	18-30	---	---	30-45	1.15-1.25	0.2-0.6	0.09-0.11	0.0-2.9	0.5-1.0	.10	.24			
	30-42	---	---	30-45	1.15-1.25	0.2-0.6	0.09-0.11	0.0-2.9	0.5-1.0	.10	.24			
	42-60	---	---	40-50	1.15-1.25	0.06-0.2	0.06-0.08	3.0-5.9	0.0-0.5	.05	.17			
Rock outcrop-----	0-60	---	---	---	---	0.0000-0.06	0.00-0.00	---	---	---	---	-	8	0
930: Fortlewis-----	0-1	---	---	15-20	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	2	3	86
	1-4	---	---	15-20	1.40-1.50	0.6-2	0.10-0.14	0.0-2.9	1.0-2.0	.15	.28			
	4-12	---	---	15-20	1.40-1.50	0.6-2	0.10-0.14	0.0-2.9	0.5-1.0	.15	.24			
	12-17	---	---	15-40	1.30-1.40	0.2-0.6	0.12-0.16	3.0-5.9	0.0-1.0	.15	.24			
	17-27	---	---	35-45	1.30-1.40	0.06-0.2	0.14-0.16	3.0-5.9	0.0-0.5	.15	.28			
	27-39	---	---	35-45	1.30-1.40	0.06-0.2	0.14-0.16	3.0-5.9	0.0-0.5	.15	.28			
	39-43	---	---	---	---	0.0000-0.06	---	---	---	---	---			
Rock outcrop-----	0-60	---	---	---	---	0.0000-0.06	0.00-0.00	---	---	---	---	-	8	0
934: Ceek-----	0-1	---	---	27-35	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	5	8	0
	1-6	---	---	27-35	1.30-1.40	0.2-0.6	0.09-0.11	0.0-2.9	1.0-3.0	.05	.20			
	6-14	---	---	27-35	1.30-1.40	0.2-0.6	0.09-0.11	0.0-2.9	0.0-1.0	.10	.24			
	14-23	---	---	35-50	1.20-1.30	0.06-0.2	0.09-0.11	3.0-5.9	0.0-0.5	.10	.28			
	23-32	---	---	40-50	1.20-1.30	0.06-0.2	0.14-0.16	6.0-8.9	0.0-0.5	.17	.17			
	32-61	---	---	40-50	1.20-1.30	0.06-0.2	0.14-0.16	6.0-8.9	0.0-0.5	.17	.17			
937: Herm-----	0-6	---	---	15-25	1.25-1.30	0.6-2	0.13-0.16	0.0-2.9	2.0-3.0	.28	.28	5	5	56
	6-13	---	---	27-40	1.35-1.40	0.06-0.6	0.16-0.19	3.0-5.9	2.0-3.0	.28	.28			
	13-17	---	---	35-50	1.25-1.35	0.06-0.2	0.14-0.17	6.0-8.9	0.5-1.0	.24	.24			
	17-45	---	---	35-50	1.25-1.35	0.06-0.2	0.14-0.17	6.0-8.9	0.5-1.0	.24	.24			
	45-60	---	---	30-40	1.35-1.40	0.06-0.6	0.16-0.19	3.0-5.9	0.0-0.5	.28	.28			
939: Ohwiler-----	0-14	---	---	10-20	1.30-1.35	0.6-2	0.16-0.19	0.0-2.9	2.0-5.0	.20	.20	5	5	56
	14-45	---	---	24-35	1.30-1.40	0.2-2	0.16-0.19	0.0-2.9	1.0-3.0	.20	.20			
	45-55	---	---	18-35	1.30-1.40	0.6-2	0.16-0.19	0.0-2.9	0.0-0.5	.28	.28			
	55-60	---	---	18-35	1.30-1.40	0.6-2	0.16-0.19	0.0-2.9	0.0-0.5	.28	.28			
940: Horsethief-----	0-2	---	---	10-20	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	4	3	86
	2-5	---	---	10-20	1.35-1.50	2-6	0.09-0.11	0.0-2.9	1.0-2.0	.15	.24			
	5-24	---	---	10-20	1.45-1.50	2-6	0.09-0.11	0.0-2.9	0.5-1.0	.15	.28			
	24-32	---	---	15-35	1.30-1.40	0.6-2	0.08-0.10	0.0-2.9	0.0-0.5	.10	.24			
	32-49	---	---	18-35	1.30-1.40	0.2-0.6	0.08-0.10	0.0-2.9	0.0-0.5	.10	.28			
	49-62	---	---	18-35	1.40-1.50	0.2-0.6	0.09-0.10	0.0-2.9	0.0-0.5	.10	.24			
942: Fivepine-----	0-3	---	---	15-27	1.25-1.35	0.6-2	0.14-0.18	0.0-2.9	1.0-3.0	.28	.28	1	6	48
	3-9	---	---	27-40	1.20-1.30	0.2-0.6	0.11-0.13	3.0-5.9	1.0-2.0	.15	.24			
	9-12	---	---	35-50	1.20-1.30	0.06-0.6	0.11-0.13	3.0-5.9	0.0-1.0	.15	.24			
	12-15	---	---	40-50	1.15-1.30	0.06-0.2	0.08-0.10	3.0-5.9	0.0-0.5	.10	.17			
	15-19	---	---	---	---	0.0000-0.06	---	---	---	---	---			

Table 24.--Physical properties of the soils--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Permea- bility (Ksat)	Available water capacity	Linear extensi- bility	Organic matter	Erosion factors			Wind erodi- bility group	Wind erodi- bility index
										Kw	Kf	T		
	In.	Pct.	Pct.	Pct.	g/cc	In./hr.	In./in.	Pct.	Pct.					
942: Pino-----	0-1	---	---	20-27	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	2	6	48
	1-4	---	---	20-27	1.25-1.35	0.6-2	0.15-0.17	0.0-2.9	1.0-2.0	.28	.28			
	4-12	---	---	20-27	1.25-1.35	0.6-2	0.15-0.17	0.0-2.9	1.0-2.0	.28	.28			
	12-15	---	---	35-40	1.25-1.35	0.2-0.6	0.18-0.20	3.0-5.9	0.5-2.0	.24	.24			
	15-21	---	---	35-40	1.25-1.35	0.2-0.6	0.18-0.20	3.0-5.9	0.5-2.0	.24	.24			
	21-29	---	---	35-55	1.30-1.40	0.06-0.2	0.16-0.18	6.0-8.9	0.0-1.0	.24	.24			
	29-34	---	---	35-55	1.30-1.40	0.06-0.2	0.16-0.18	6.0-8.9	0.0-1.0	.24	.24			
	34-38	---	---	---	---	0.0000-0.06	---	---	---	---	---			
945: Nizhoni-----	0-4	---	---	10-18	1.35-1.45	2-6	0.13-0.15	0.0-2.9	1.0-2.0	.24	.24	1	3	86
	4-8	---	---	10-18	1.35-1.45	2-6	0.13-0.15	0.0-2.9	1.0-2.0	.24	.24			
	8-12	---	---	---	---	0.0000-0.06	---	---	---	---	---			
Arabrab-----	0-3	---	---	10-20	1.35-1.45	2-6	0.13-0.15	0.0-2.9	0.5-1.0	.28	.28	1	3	86
	3-16	---	---	20-35	1.25-1.35	0.6-2	0.15-0.19	3.0-5.9	0.0-0.5	.28	.24			
	16-20	---	---	---	---	0.0000-0.06	---	---	---	---	---			
Rock outcrop-----	0-60	---	---	---	---	0.0000-0.06	0.00-0.00	---	---	---	---	-	8	0
950: Pescar-----	0-8	---	---	8-15	1.45-1.50	2-6	0.13-0.15	0.0-2.9	0.5-1.0	.28	.28	3	3	86
	8-20	---	---	5-18	1.40-1.50	2-6	0.13-0.15	0.0-2.9	0.0-1.0	.32	.32			
	20-60	---	---	0-5	1.50-1.60	20-101	0.03-0.05	0.0-2.9	0.0-0.5	.05	.20			
951: Endoaquolls-----	0-4	---	---	15-25	1.15-1.25	0.6-2	0.14-0.17	0.0-2.9	1.0-4.0	.28	.28	2	8	0
	4-12	---	---	15-25	1.25-1.35	0.6-6	0.10-0.13	0.0-2.9	0.5-3.0	.24	.24			
	12-14	---	---	15-25	1.25-1.35	0.6-6	0.10-0.13	0.0-2.9	0.5-3.0	.24	.24			
	14-19	---	---	15-25	1.25-1.35	0.6-6	0.10-0.13	0.0-2.9	0.5-3.0	.24	.24			
	19-28	---	---	15-25	1.25-1.35	0.6-6	0.10-0.13	0.0-2.9	0.5-3.0	.24	.24			
	28-60	---	---	0-10	1.50-1.60	6-20	0.02-0.03	0.0-2.9	0.0-0.5	.02	.20			
955: Umbarg-----	0-2	---	---	15-27	1.30-1.40	0.6-2	0.15-0.18	0.0-2.9	2.0-5.0	.20	.20	4	4L	86
	2-12	---	---	27-35	1.25-1.35	0.2-0.6	0.17-0.20	0.0-2.9	2.0-5.0	.15	.15			
	12-33	---	---	18-27	1.30-1.40	0.6-2	0.15-0.18	0.0-2.9	1.0-3.0	.28	.28			
	33-42	---	---	18-27	1.30-1.40	0.6-2	0.15-0.18	0.0-2.9	1.0-3.0	.28	.28			
	42-60	---	---	15-27	1.30-1.40	0.6-2	0.08-0.11	0.0-2.9	1.0-3.0	.10	.28			
Winner-----	0-4	---	---	27-35	1.15-1.25	0.2-0.6	0.18-0.20	0.0-2.9	2.0-4.0	.17	.17	4	8	0
	4-14	---	---	27-35	1.15-1.25	0.2-0.6	0.18-0.20	0.0-2.9	2.0-4.0	.17	.17			
	14-23	---	---	27-35	1.15-1.25	0.2-0.6	0.18-0.20	0.0-2.9	2.0-4.0	.17	.17			
	23-31	---	---	27-35	1.15-1.25	0.2-0.6	0.18-0.20	0.0-2.9	2.0-4.0	.17	.17			
	31-60	---	---	20-35	1.25-1.35	0.6-2	0.07-0.10	0.0-2.9	0.5-2.0	.05	.20			
Tesajo-----	0-3	---	---	10-18	1.40-1.50	2-6	0.08-0.11	0.0-2.9	2.0-4.0	.10	.20	5	3	86
	3-36	---	---	10-18	1.45-1.55	6-20	0.04-0.06	0.0-2.9	1.0-3.0	.05	.20			
	36-60	---	---	10-18	1.40-1.50	2-6	0.04-0.06	0.0-2.9	1.0-3.0	.05	.24			
956: Ormiston-----	0-2	---	---	15-27	1.35-1.40	0.6-6	0.04-0.05	0.0-2.9	1.0-3.0	.05	.28	3	8	0
	2-7	---	---	27-35	1.35-1.40	0.2-0.6	0.09-0.11	0.0-2.9	0.0-0.5	.10	.24			
	7-24	---	---	35-60	1.35-1.40	0.06-0.2	0.07-0.11	3.0-5.9	0.0-0.5	.10	.28			
	24-32	---	---	35-60	1.35-1.40	0.06-0.2	0.07-0.11	3.0-5.9	0.0-0.5	.10	.28			
	32-44	---	---	27-40	1.30-1.40	0.2-0.6	0.13-0.16	3.0-5.9	0.0-0.5	.15	.28			
	44-48	---	---	---	---	0.06-0.2	---	---	---	---	---			
Granath-----	0-2	---	---	15-27	1.30-1.40	0.6-2	0.18-0.20	0.0-2.9	2.0-4.0	.24	.24	5	6	48
	2-10	---	---	15-27	1.30-1.40	0.6-2	0.18-0.20	0.0-2.9	2.0-4.0	.24	.24			
	10-15	---	---	18-35	1.15-1.40	0.2-2	0.14-0.21	0.0-2.9	0.5-1.0	.24	.24			
	15-20	---	---	18-35	1.15-1.40	0.2-2	0.14-0.21	0.0-2.9	0.5-1.0	.24	.24			
	20-28	---	---	18-35	1.25-1.40	0.2-2	0.14-0.21	0.0-2.9	0.5-1.0	.24	.24			
	28-40	---	---	18-35	1.15-1.40	0.2-2	0.14-0.21	0.0-2.9	0.5-1.0	.24	.24			
	40-60	---	---	18-35	1.25-1.40	0.2-0.6	0.14-0.21	0.0-2.9	0.0-0.5	.28	.28			
958: Sheek-----	0-1	---	---	10-20	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	5	8	0
	1-5	---	---	10-20	1.40-1.50	2-6	0.05-0.07	0.0-2.9	2.0-4.0	.05	.20			
	5-43	---	---	18-35	1.35-1.45	0.2-0.6	0.09-0.11	0.0-2.9	0.5-2.0	.15	.28			
	43-61	---	---	18-35	1.35-1.45	0.2-0.6	0.09-0.11	0.0-2.9	0.5-2.0	.15	.28			
Archuleta-----	0-1	---	---	10-20	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	2	8	0
	1-6	---	---	10-20	1.40-1.50	2-6	0.05-0.07	0.0-2.9	1.0-3.0	.10	.24			
	6-9	---	---	10-20	1.40-1.50	2-6	0.07-0.10	0.0-2.9	1.0-3.0	.10	.24			
	9-18	---	---	20-35	1.25-1.40	0.2-0.6	0.13-0.16	0.0-2.9	0.5-1.0	.15	.28			
	18-28	---	---	---	---	0.0000-0.2	---	---	---	---	---			
Rock outcrop-----	0-60	---	---	---	---	0.0000-0.06	---	---	---	---	---	-	8	0

Table 24.--Physical properties of the soils--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Permea- bility (Ksat)	Available water capacity	Linear extensi- bility	Organic matter	Erosion factors			Wind erodi- bility group	Wind erodi- bility index
										Kw	Kf	T		
	In.	Pct.	Pct.	Pct.	g/cc	In./hr.	In./in.	Pct.	Pct.					
959: Granath-----	0-2	---	---	15-27	1.30-1.40	0.6-2	0.18-0.20	0.0-2.9	2.0-4.0	.24	.24	5	6	48
	2-10	---	---	15-27	1.30-1.40	0.6-2	0.18-0.20	0.0-2.9	2.0-4.0	.24	.24			
	10-15	---	---	18-35	1.15-1.40	0.2-2	0.14-0.21	0.0-2.9	0.5-1.0	.24	.24			
	15-20	---	---	18-35	1.15-1.40	0.2-2	0.14-0.21	0.0-2.9	0.5-1.0	.24	.24			
	20-28	---	---	18-40	1.25-1.40	0.2-2	0.14-0.21	0.0-2.9	0.5-1.0	.24	.24			
	28-40	---	---	18-40	1.15-1.40	0.2-2	0.14-0.21	0.0-2.9	0.5-1.0	.24	.24			
	40-60	---	---	18-40	1.25-1.40	0.2-0.6	0.14-0.21	0.0-2.9	0.0-0.5	.28	.28			
965: Narraguinnep-----	0-6	---	---	27-40	1.25-1.35	0.06-0.2	0.16-0.19	3.0-5.9	1.0-3.0	.20	.20	5	6	48
	6-17	---	---	35-50	1.15-1.25	0.06-0.2	0.14-0.16	6.0-8.9	1.0-3.0	.20	.20			
	17-23	---	---	35-50	1.15-1.25	0.06-0.2	0.14-0.16	6.0-8.9	1.0-3.0	.20	.20			
	23-30	---	---	27-50	1.25-1.35	0.06-0.2	0.13-0.18	3.0-8.9	0.5-1.0	.24	.24			
	30-60	---	---	27-50	1.25-1.35	0.06-0.2	0.13-0.18	3.0-8.9	0.5-1.0	.24	.24			
Dapoin-----	0-4	---	---	27-35	1.25-1.35	0.2-0.6	0.19-0.21	0.0-2.9	2.0-4.0	.15	.15	5	6	48
	4-13	---	---	27-35	1.25-1.35	0.2-0.6	0.19-0.21	0.0-2.9	2.0-4.0	.15	.15			
	13-18	---	---	40-45	1.15-1.30	0.06-0.2	0.14-0.16	6.0-8.9	0.0-1.0	.17	.17			
	18-29	---	---	35-50	1.25-1.35	0.06-0.2	0.15-0.17	3.0-5.9	0.0-0.5	.17	.28			
	29-32	---	---	35-50	1.25-1.35	0.06-0.2	0.15-0.17	3.0-5.9	0.0-0.5	.17	.28			
	32-38	---	---	35-50	1.25-1.35	0.06-0.2	0.15-0.17	3.0-5.9	0.0-0.5	.17	.28			
	38-44	---	---	30-40	1.25-1.35	0.2-0.6	0.16-0.19	3.0-5.9	0.0-0.5	.28	.28			
	44-60	---	---	30-40	1.25-1.35	0.2-0.6	0.16-0.19	3.0-5.9	0.0-0.5	.28	.28			
966: Cryaquepts-----	0-8	---	---	10-20	1.15-1.25	0.6-2	0.14-0.18	0.0-2.9	2.0-5.0	.20	.20	2	5	56
	8-15	---	---	12-25	1.25-1.35	0.6-2	0.11-0.14	0.0-2.9	0.0-1.0	.20	.37			
	15-28	---	---	15-25	1.25-1.40	0.6-2	0.05-0.07	0.0-2.9	0.0-0.5	.05	.43			
	28-32	---	---	---	---	0.0000-0.06	---	---	---	---	---			
967: Quazar-----	0-12	---	---	15-27	1.30-1.35	0.6-2	0.07-0.09	0.0-2.9	2.0-4.0	.10	.24	5	8	0
	12-26	---	---	20-35	1.30-1.40	0.6-2	0.04-0.06	0.0-2.9	0.5-1.0	.02	.20			
	26-60	---	---	27-35	1.30-1.40	0.6-2	0.04-0.06	0.0-2.9	0.0-0.5	.02	.20			
Cryaquolls-----	0-7	---	---	10-27	1.25-1.40	0.6-2	0.14-0.17	0.0-2.9	2.0-6.0	.20	.20	5	6	48
	7-12	---	---	10-27	1.25-1.40	0.6-2	0.14-0.17	0.0-2.9	2.0-6.0	.20	.20			
	12-60	---	---	10-32	1.25-1.50	0.2-6	0.05-0.18	0.0-2.9	0.0-1.0	.20	.28			
Crychemists-----	0-14	---	---	10-20	0.25-0.30	2-6	0.20-0.25	0.0-2.9	70-90	.02	.02	3	8	0
	14-26	---	---	10-20	0.25-0.30	2-6	0.20-0.25	0.0-2.9	70-90	.02	.02			
	26-38	---	---	10-20	0.25-0.30	2-6	0.20-0.25	0.0-2.9	70-90	.02	.02			
	38-45	---	---	12-25	1.35-1.45	0.6-2	0.11-0.15	0.0-2.9	1.0-3.0	.20	.28			
	45-60	---	---	12-25	1.35-1.45	0.6-2	0.11-0.15	0.0-2.9	1.0-3.0	.20	.28			
968: Nortez-----	0-3	---	---	15-27	1.30-1.40	0.6-2	0.15-0.18	0.0-2.9	1.0-3.0	.28	.28	2	6	48
	3-10	---	---	27-40	1.35-1.45	0.2-0.6	0.17-0.20	3.0-5.9	1.0-2.0	.20	.20			
	10-32	---	---	35-60	1.25-1.35	0.06-0.2	0.15-0.18	6.0-8.9	0.5-1.0	.24	.24			
	32-42	---	---	---	---	0.0000-0.06	---	---	---	---	---			
Granath-----	0-2	---	---	15-27	1.30-1.40	0.6-2	0.18-0.20	0.0-2.9	2.0-4.0	.24	.24	5	6	48
	2-10	---	---	15-27	1.30-1.40	0.6-2	0.18-0.20	0.0-2.9	2.0-4.0	.24	.24			
	10-15	---	---	18-35	1.15-1.40	0.2-2	0.14-0.21	0.0-2.9	0.5-1.0	.24	.24			
	15-20	---	---	18-35	1.15-1.40	0.2-2	0.14-0.21	0.0-2.9	0.5-1.0	.24	.24			
	20-28	---	---	18-40	1.25-1.40	0.2-2	0.14-0.21	0.0-2.9	0.5-1.0	.24	.24			
	28-40	---	---	18-40	1.15-1.40	0.2-2	0.14-0.21	0.0-2.9	0.5-1.0	.24	.24			
	40-60	---	---	18-40	1.25-1.40	0.2-0.6	0.14-0.21	0.0-2.9	0.0-0.5	.28	.28			
969: Nortez-----	0-3	---	---	15-27	1.30-1.40	0.6-2	0.15-0.18	0.0-2.9	1.0-3.0	.28	.28	2	6	48
	3-10	---	---	27-40	1.35-1.45	0.2-0.6	0.17-0.20	3.0-5.9	1.0-2.0	.20	.20			
	10-32	---	---	35-60	1.25-1.35	0.06-0.2	0.15-0.18	6.0-8.9	0.5-1.0	.24	.24			
	32-42	---	---	---	---	0.0000-0.06	---	---	---	---	---			
Fivepine-----	0-3	---	---	15-27	1.25-1.35	0.6-2	0.14-0.18	0.0-2.9	1.0-3.0	.28	.28	1	6	48
	3-9	---	---	27-40	1.20-1.30	0.2-0.6	0.11-0.13	3.0-5.9	1.0-2.0	.15	.24			
	9-12	---	---	35-50	1.20-1.30	0.06-0.6	0.11-0.13	3.0-5.9	0.0-1.0	.15	.24			
	12-15	---	---	40-50	1.15-1.30	0.06-0.2	0.08-0.10	3.0-5.9	0.0-0.5	.10	.17			
	15-19	---	---	---	---	0.0000-0.06	---	---	---	---	---			
972: Pagoda-----	0-1	---	---	27-35	0.20-1.00	20-101	0.15-0.45	---	70-95	---	---	5	6	48
	1-5	---	---	27-35	1.15-1.25	0.2-0.6	0.19-0.21	0.0-2.9	1.0-3.0	.20	.20			
	5-16	---	---	35-40	1.25-1.40	0.2-0.6	0.19-0.21	3.0-5.9	1.0-3.0	.20	.20			
	16-21	---	---	35-50	1.30-1.50	0.06-0.2	0.19-0.21	6.0-8.9	0.5-1.0	.24	.24			
	21-32	---	---	27-50	1.25-1.45	0.06-0.6	0.19-0.21	6.0-8.9	0.5-1.0	.24	.24			
	32-61	---	---	27-50	1.25-1.45	0.06-0.6	0.19-0.21	6.0-8.9	0.5-1.0	.24	.24			

Table 24.--Physical properties of the soils--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Permea- bility (Ksat)	Available water capacity	Linear extensi- bility	Organic matter	Erosion factors			Wind erodi- bility group	Wind erodi- bility index
										Kw	Kf	T		
	In.	Pct.	Pct.	Pct.	g/cc	In./hr.	In./in.	Pct.	Pct.					
972:														
Coulterg-----	0-5	---	---	27-35	1.35-1.40	0.2-0.6	0.12-0.18	3.0-5.9	4.0-6.0	.15	.15	5	4L	86
	5-10	---	---	27-35	1.35-1.40	0.2-0.6	0.12-0.18	3.0-5.9	4.0-6.0	.15	.15			
	10-14	---	---	18-30	1.25-1.40	0.6-2	0.16-0.20	0.0-2.9	1.0-2.0	.28	.28			
	14-31	---	---	18-30	1.25-1.40	0.6-2	0.16-0.20	0.0-2.9	0.0-1.0	.28	.28			
	31-60	---	---	18-30	1.25-1.40	0.6-2	0.16-0.20	0.0-2.9	0.0-1.0	.28	.28			
Wiggler-----	0-4	---	---	20-27	1.25-1.35	0.6-2	0.10-0.13	0.0-2.9	1.0-2.0	.15	.28	2	4L	86
	4-10	---	---	18-32	1.15-1.25	0.2-0.6	0.10-0.16	0.0-2.9	0.0-1.0	.17	.32			
	10-20	---	---	---	---	0.0000-0.06	---	---	---	---	---			
989:														
Ryman-----	0-19	---	---	20-27	1.25-1.35	0.6-2	0.15-0.18	0.0-2.9	2.0-4.0	.24	.24	5	6	48
	19-36	---	---	35-45	1.20-1.30	0.06-0.2	0.14-0.16	3.0-5.9	0.0-1.0	.24	.24			
	36-60	---	---	35-45	1.15-1.25	0.06-0.2	0.12-0.15	3.0-5.9	0.0-0.5	.15	.24			
990:														
Ryman, warm-----	0-4	---	---	20-27	1.25-1.35	0.6-2	0.15-0.18	0.0-2.9	2.0-4.0	.24	.24	5	6	48
	4-18	---	---	27-35	1.25-1.35	0.2-0.6	0.14-0.17	3.0-5.9	1.0-3.0	.20	.20			
	18-32	---	---	35-45	1.25-1.30	0.06-0.2	0.14-0.16	3.0-5.9	0.5-1.0	.24	.24			
	32-60	---	---	35-45	1.15-1.25	0.06-0.2	0.12-0.15	3.0-5.9	0.0-0.5	.15	.24			
992:														
Gladlow-----	0-5	---	---	30-40	1.25-1.40	0.2-0.6	0.17-0.20	3.0-5.9	1.0-2.0	.20	.20	5	4L	86
	5-14	---	---	35-45	1.20-1.30	0.06-0.2	0.15-0.18	3.0-5.9	1.0-2.0	.20	.20			
	14-24	---	---	35-45	1.20-1.30	0.06-0.2	0.15-0.18	3.0-5.9	0.5-1.0	.24	.24			
	24-31	---	---	35-45	1.20-1.30	0.06-0.2	0.15-0.18	3.0-5.9	0.5-1.0	.24	.24			
	31-60	---	---	35-45	1.20-1.30	0.06-0.2	0.14-0.18	3.0-5.9	0.0-0.5	.28	.28			
996:														
Zoltay-----	0-6	---	---	20-27	1.20-1.30	0.6-2	0.17-0.19	0.0-2.9	3.0-6.0	.20	.20	5	6	48
	6-14	---	---	27-35	1.25-1.35	0.2-0.6	0.17-0.19	0.0-2.9	2.0-4.0	.17	.17			
	14-23	---	---	35-45	1.30-1.40	0.06-0.2	0.13-0.15	3.0-5.9	1.0-3.0	.10	.20			
	23-29	---	---	35-45	1.30-1.40	0.06-0.2	0.13-0.15	3.0-5.9	0.5-2.0	.10	.20			
	29-46	---	---	27-45	1.30-1.40	0.06-0.6	0.10-0.14	3.0-5.9	0.0-0.5	.15	.24			
	46-60	---	---	27-45	1.30-1.40	0.06-0.6	0.10-0.14	3.0-5.9	0.0-0.5	.15	.24			
997:														
Zigzag-----	0-6	---	---	35-40	1.25-1.30	0.2-0.6	0.16-0.20	0.0-2.9	1.0-2.0	.28	.28	2	4L	86
	6-15	---	---	35-45	1.20-1.30	0.06-0.2	0.14-0.19	3.0-5.9	0.0-0.5	.28	.28			
	15-25	---	---	---	---	0.0000-0.06	---	---	---	---	---			
Bodot-----	0-3	---	---	27-40	1.20-1.30	0.2-0.6	0.17-0.20	0.0-2.9	0.5-1.0	.32	.32	3	4L	86
	3-18	---	---	35-50	1.35-1.40	0.06-0.2	0.14-0.20	6.0-8.9	0.0-0.5	.28	.28			
	18-38	---	---	35-50	1.35-1.40	0.06-0.2	0.14-0.20	6.0-8.9	0.0-0.5	.28	.28			
	38-48	---	---	---	---	0.0000-0.06	---	---	---	---	---			
Rock outcrop-----	0-60	---	---	---	---	0.0000-0.06	0.00-0.00	---	---	---	---	-	8	0

Table 25.--Chemical properties of the soils

(Absence of an entry indicates that data were not estimated.)

Map symbol and soil name	Depth	Cation exchange capacity	Effective cation exchange capacity	Soil reaction	Calcium carbon- ate	Gypsum	Salinity	Sodium adsorp- tion ratio
	In.	meq/100 g	meq/100 g	pH	Pct.	Pct.	mmhos/cm	
1:								
Bradfield-----	0-7	20-40	---	6.6-7.8	0	0	0	0
	7-15	30-65	---	6.6-7.8	0	0	0	0
	15-28	30-65	---	6.6-7.8	0	0	0	0
	28-36	25-60	---	6.6-7.8	0	0	0	0
	36-60	25-50	---	6.6-8.4	0-10	0-5	0	0
Narraguinnep-----	0-6	20-40	---	6.6-7.8	0	0	0	0
	6-17	25-45	---	6.6-7.8	0	0	0	0
	17-23	25-45	---	6.6-7.8	0-5	0	0	0
	23-30	15-35	---	7.9-8.4	5-15	0	0.0-2.0	0
	30-60	15-35	---	7.9-8.4	5-15	0	0.0-2.0	0
2:								
Hesperus-----	0-3	10-25	---	6.6-7.3	0	0	0	0
	3-8	10-25	---	6.6-7.3	0	0	0	0
	8-15	10-25	---	6.6-7.3	0	0	0	0
	15-22	10-25	---	6.6-7.3	0	0	0	0
	22-28	10-25	---	6.6-7.3	0	0	0	0
	28-40	10-25	---	6.6-7.3	0	0	0	0
	40-51	10-25	---	6.6-7.3	0	0	0	0
	51-60	10-25	---	6.6-7.3	0	0	0	0
10:								
Lillings-----	0-8	10-25	---	7.4-8.4	1-15	0	0.0-4.0	5-10
	8-27	5.0-20	---	7.9-9.6	10-15	0-5	4.0-16.0	5-10
	27-50	5.0-20	---	7.9-9.6	10-15	0-5	4.0-16.0	5-10
	50-60	5.0-20	---	7.9-9.6	10-15	0-5	4.0-16.0	5-10
12:								
Shawa-----	0-7	10-20	---	6.6-7.3	0	0	0	0
	7-19	10-20	---	6.6-7.3	0	0	0	0
	19-38	10-25	---	6.6-7.3	0	0	0	0
	38-60	10-25	---	6.6-7.3	0	0	0	0
13:								
Fughes-----	0-2	10-25	---	6.1-7.3	0	0	0	0
	2-7	10-25	---	6.1-7.3	0	0	0	0
	7-18	20-35	---	6.1-7.3	0	0	0	0
	18-26	20-35	---	6.1-7.3	0	0	0	0
	26-34	25-40	---	6.1-7.3	0	0	0	0
	34-44	25-40	---	6.1-7.3	0	0	0	0
	44-60	25-40	---	6.1-7.3	0	0	0	0

Table 25.--Chemical properties of the soils--Continued

Map symbol and soil name	Depth	Cation exchange capacity	Effective cation exchange capacity	Soil reaction	Calcium carbon- ate	Gypsum	Salinity	Sodium adsorp- tion ratio
	In.	meq/100 g	meq/100 g	pH	Pct.	Pct.	mmhos/cm	
14: Dalmatian-----	0-2	10-25	---	6.6-7.3	0	0	0	0
	2-13	10-25	---	6.6-7.3	0	0	0	0
	13-25	10-20	---	6.6-7.3	0	0	0	0
	25-39	10-20	---	6.6-7.3	0	0	0	0
	39-45	10-20	---	6.6-7.3	0	0	0	0
	45-49	10-20	---	6.6-7.3	0	0	0	0
	49-60	5.0-15	---	6.6-7.3	0	0	0	0
Apmay-----	0-4	15-30	---	5.6-7.3	0	0	0	0
	4-10	20-35	---	6.6-7.3	0	0	0	0
	10-18	20-35	---	6.6-7.3	0	0	0	0
	18-22	10-15	---	6.6-7.3	0	0	0	0
	22-28	5.0-10	---	6.6-7.3	0	0	0	0
	28-49	5.0-10	---	6.6-7.3	0	0	0	0
	49-60	5.0-10	---	6.6-7.3	0	0	0	0
Schrader-----	0-4	15-30	---	6.6-7.8	0	0	0	0
	4-13	15-30	---	6.6-7.8	0	0	0	0
	13-17	10-20	---	6.6-7.8	0	0	0	0
	17-24	10-25	---	6.6-7.8	0	0	0	0
	24-60	5.0-20	---	6.6-7.8	0	0	0	0
15: Umbarg-----	0-9	15-30	---	6.6-7.8	0-1	0	0	0
	9-18	15-30	---	6.6-7.8	0-1	0	0	0
	18-25	15-30	---	6.6-7.8	0-1	0	0	0
	25-34	10-25	---	7.4-8.4	1-10	0	0	0
	34-44	10-25	---	7.4-8.4	1-10	0	0	0
	44-48	10-25	---	7.4-8.4	1-10	0	0	0
	48-60	10-25	---	7.9-8.4	1-10	0	0	0
16: Payter-----	0-3	5.0-15	---	6.6-7.8	0-1	0	0	0
	3-6	5.0-15	---	6.6-7.8	0-1	0	0	0
	6-11	5.0-15	---	6.6-7.8	0-1	0	0	0
	11-17	5.0-15	---	7.4-8.4	0-2	0	0.0-2.0	0
	17-39	5.0-15	---	7.4-8.4	0-2	0	0.0-2.0	0
	39-60	5.0-10	---	7.4-8.4	1-5	0	0.0-2.0	0
17: Fluvaquents-----	0-6	5.0-30	---	6.6-7.8	0	0	0	0
	6-60	0.0-10	---	6.6-7.8	0	0	0	0

Table 25.--Chemical properties of the soils--Continued

Map symbol and soil name	Depth	Cation exchange capacity	Effective cation exchange capacity	Soil reaction	Calcium carbon- ate	Gypsum	Salinity	Sodium adsorp- tion ratio
	In.	meq/100 g	meq/100 g	pH	Pct.	Pct.	mmhos/cm	
17: Haplustolls-----	0-4	5.0-20	---	6.6-7.8	0	0	0	0
	4-11	5.0-20	---	6.6-7.8	0-2	0	0	0
	11-19	5.0-20	---	6.6-7.8	0-2	0	0	0
	19-24	5.0-10	---	6.6-7.8	0-5	0	0	0
	24-60	0.0-10	---	7.4-8.4	0-5	0	0.0-2.0	0
18: Endoaquolls-----	0-4	5.0-15	---	6.6-7.8	0-1	0	0	0
	4-12	10-20	---	6.6-7.8	0-2	0	0	0
	12-14	10-20	---	6.6-7.8	0-2	0	0	0
	14-19	10-20	---	6.6-7.8	0-2	0	0	0
	19-28	10-20	---	6.6-7.8	0-2	0	0	0
	28-60	5.0-10	---	6.6-7.8	0-2	0	0	0
Ustifluvents-----	0-6	10-20	---	6.1-7.3	0	0	0	0
	6-17	5.0-20	---	6.1-7.3	0	0	0	0
	17-24	5.0-15	---	6.1-7.3	0	0	0	0
	24-30	5.0-20	---	6.1-7.3	0	0	0	0
	30-60	0.0-5.0	---	6.1-7.3	0	0	0	0
20: Mavreeso-----	0-5	15-25	---	6.1-7.8	0-2	0	0	0
	5-10	15-25	---	6.1-7.8	0-2	0	0	0
	10-18	10-20	---	6.6-7.8	0-2	0	0	0
	18-28	10-20	---	6.6-7.8	0-2	0	0	0
	28-42	5.0-20	---	7.4-8.4	1-5	0	0	0
	42-50	10-20	---	7.4-8.4	1-10	0	0	0
	50-60	5.0-15	---	7.4-8.4	1-10	0	0	0
51: Clayburn-----	0-5	10-25	---	6.1-7.3	0	0	0	0
	5-13	10-25	---	6.1-7.3	0	0	0	0
	13-18	10-25	---	6.1-7.3	0	0	0	0
	18-36	10-25	---	6.1-7.3	0	0	0	0
	36-48	10-25	---	6.1-7.3	0	0	0	0
	48-60	10-25	---	6.1-7.3	0	0	0	0
Hourglass-----	0-11	10-25	---	6.1-7.3	0	0	0	0
	11-18	10-25	---	6.1-7.3	0	0	0	0
	18-31	10-25	---	6.1-7.3	0	0	0	0
	31-46	10-25	---	6.1-7.3	0	0	0	0
	46-60	10-20	---	6.1-7.3	0	0	0	0

Table 25.--Chemical properties of the soils--Continued

Map symbol and soil name	Depth	Cation exchange capacity	Effective cation exchange capacity	Soil reaction	Calcium carbon- ate	Gypsum	Salinity	Sodium adsorp- tion ratio
	In.	meq/100 g	meq/100 g	pH	Pct.	Pct.	mmhos/cm	
52: Ohwiler-----	0-8	10-20	---	6.1-7.3	0	0	0	0
	8-15	10-20	---	6.1-7.3	0	0	0	0
	15-30	10-30	---	6.1-7.3	0	0	0	0
	30-40	10-30	---	6.1-7.3	0	0	0	0
	40-52	5.0-20	---	6.1-7.3	0	0	0	0
	52-60	5.0-20	---	6.1-7.3	0	0	0	0
53: Cryaquolls-----	0-7	10-30	---	5.6-7.3	0	0	0	0
	7-12	10-30	---	5.6-7.3	0	0	0	0
	12-60	5.0-25	---	4.5-7.3	0	0	0	0
Typic Cryaquents-----	0-3	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	3-11	5.0-15	---	6.6-7.3	0	0	0.0-2.0	0
	11-63	2.0-15	---	5.6-7.3	0	0	0.0-2.0	0
54: Quazar-----	0-3	10-25	---	6.1-7.3	0	0	0	0
	3-12	10-25	---	6.1-7.3	0	0	0	0
	12-26	15-30	---	6.1-7.3	0	0	0	0
	26-60	15-30	---	6.1-7.3	0	0	0	0
56: Typic Cryaquents-----	0-3	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	3-11	10-20	---	5.6-6.5	0	0	0	0
	11-63	2.0-15	---	5.6-7.3	0	0	0.0-2.0	0
Cryaquolls-----	0-7	10-30	---	5.6-7.3	0	0	0	0
	7-12	10-30	---	5.6-7.3	0	0	0	0
	12-60	5.0-25	---	4.5-7.3	0	0	0	0
Cryofibrists-----	0-10	75-150	45-90	5.1-6.5	0	0	0	0
	10-30	75-150	45-90	5.1-6.5	0	0	0	0
	30-60	75-150	45-90	5.1-6.5	0	0	0	0
57: Howardsville-----	0-2	5.0-20	---	5.6-7.3	0	0	0	0
	2-10	5.0-15	---	5.6-7.3	0	0	0	0
	10-60	0.0-5.0	---	5.6-7.3	0	0	0	0

Table 25.--Chemical properties of the soils--Continued

Map symbol and soil name	Depth	Cation exchange capacity	Effective cation exchange capacity	Soil reaction	Calcium carbon- ate	Gypsum	Salinity	Sodium adsorp- tion ratio
	In.	meq/100 g	meq/100 g	pH	Pct.	Pct.	mmhos/cm	
58:								
Fughes-----	0-8	10-25	---	6.1-7.3	0	0	0	0
	8-20	20-35	---	6.1-7.3	0	0	0	0
	20-26	20-35	---	6.1-7.3	0	0	0	0
	26-44	25-45	---	6.1-7.3	0	0	0	0
	44-60	20-45	---	6.1-7.3	0	0	0	0
Herm-----	0-6	15-25	---	6.1-7.3	0	0	0	0
	6-13	20-35	---	6.1-7.3	0	0	0	0
	13-17	20-40	---	6.1-7.3	0	0	0	0
	17-45	20-40	---	6.1-7.3	0	0	0	0
	45-60	20-30	---	6.6-8.4	0-5	0	0	0
59:								
Fughes-----	0-20	10-25	---	6.1-7.3	0	0	0	0
	20-26	15-35	---	6.1-7.3	0	0	0	0
	26-44	15-35	---	6.1-7.3	0	0	0	0
	44-60	25-45	---	6.1-7.3	0	0	0	0
Herm-----	0-6	15-25	---	6.1-7.3	0	0	0	0
	6-13	25-35	---	6.1-7.3	0	0	0	0
	13-17	20-40	---	6.1-7.3	0	0	0	0
	17-45	20-40	---	6.1-7.3	0	0	0	0
	45-60	20-30	---	6.6-8.4	0-5	0	0	0
60:								
Grimes-----	0-5	5.0-15	---	6.1-7.3	0	0	0	0
	5-22	3.0-10	---	6.1-7.3	0	0	0	0
	22-60	0.0-5.0	---	6.1-7.3	0	0	0	0
110:								
Sheek-----	0-2	15-25	---	6.6-7.8	0	0	0	0
	2-7	10-25	---	6.6-7.8	0	0	0	0
	7-20	10-25	---	6.6-7.8	0	0	0	0
	20-29	5.0-15	---	6.6-7.8	0-10	0	0	0
	29-46	10-25	---	7.4-8.4	2-10	0	0	0
	46-60	5.0-15	---	7.4-8.4	5-15	0	0	0
Ormiston-----	0-7	15-30	---	6.6-7.3	0	0	0	0
	7-24	20-50	---	6.6-7.8	0	0	0	0
	24-32	20-50	---	6.6-7.8	0-5	0	0	0
	32-44	15-35	---	7.4-8.4	15-40	0	0.0-2.0	0
	44-54	---	---	---	---	---	---	---

Table 25.--Chemical properties of the soils--Continued

Map symbol and soil name	Depth	Cation exchange capacity	Effective cation exchange capacity	Soil reaction	Calcium carbon- ate	Gypsum	Salinity	Sodium adsorp- tion ratio
	In.	meq/100 g	meq/100 g	pH	Pct.	Pct.	mmhos/cm	
111: Fardraw-----	0-8	10-25	---	6.1-7.3	0	0	0	0
	8-11	10-25	---	6.1-7.3	0	0	0	0
	11-15	25-40	---	6.1-7.3	0	0	0	0
	15-29	20-40	---	6.1-7.3	0	0	0	0
	29-51	20-40	---	6.1-7.3	0	0	0	0
	51-60	20-35	---	6.1-7.3	0	0	0	0
113: Dolores-----	0-1	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	1-8	15-30	---	6.6-7.3	0	0	0	0
	8-24	15-35	---	6.6-7.8	0	0	0	0
	24-49	15-35	---	6.6-7.8	0	0	0	0
	49-61	15-35	---	7.4-8.4	5-25	0	0.0-2.0	0
150: Silex-----	0-1	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	1-4	---	2.0-15	4.5-5.5	0	0	0	0
	4-10	---	2.0-15	4.5-5.5	0	0	0	0
	10-18	---	5.0-15	4.5-5.5	0	0	0	0
	18-22	---	---	---	---	---	---	---
Rock outcrop-----	0-60	---	---	---	---	---	---	---
151: Frisco-----	0-2	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	2-5	5.0-20	---	6.1-7.3	0	0	0	0
	5-11	5.0-20	---	6.1-7.3	0	0	0	0
	11-19	5.0-20	---	5.6-7.3	0	0	0	0
	19-48	5.0-20	---	5.6-7.3	0	0	0	0
	48-62	5.0-15	---	5.6-7.3	0	0	0	0
152: Frisco-----	0-2	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	2-5	5.0-20	---	6.1-7.3	0	0	0	0
	5-11	5.0-20	---	6.1-7.3	0	0	0	0
	11-19	5.0-20	---	5.6-7.3	0	0	0	0
	19-48	5.0-20	---	5.6-7.3	0	0	0	0
	48-62	5.0-15	---	5.6-7.3	0	0	0	0

Table 25.--Chemical properties of the soils--Continued

Map symbol and soil name	Depth	Cation exchange capacity	Effective cation exchange capacity	Soil reaction	Calcium carbon- ate	Gypsum	Salinity	Sodium adsorp- tion ratio
	In.	meq/100 g	meq/100 g	pH	Pct.	Pct.	mmhos/cm	
153:								
Frisco-----	0-2	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	2-5	5.0-20	---	6.1-7.3	0	0	0	0
	5-11	5.0-20	---	6.1-7.3	0	0	0	0
	11-19	5.0-20	---	5.6-7.3	0	0	0	0
	19-48	5.0-20	---	5.6-7.3	0	0	0	0
	48-62	5.0-15	---	5.6-7.3	0	0	0	0
Horsethief-----	0-2	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	2-5	10-20	---	5.1-6.0	0	0	0	0
	5-16	5.0-15	---	5.1-6.0	0	0	0	0
	16-24	5.0-15	---	5.1-6.0	0	0	0	0
	24-32	10-20	---	5.1-6.0	0	0	0	0
	32-49	10-20	---	5.1-6.0	0	0	0	0
	49-62	10-20	---	5.1-7.3	0	0	0	0
154:								
Frisco-----	0-2	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	2-5	5.0-20	---	6.1-7.3	0	0	0	0
	5-11	5.0-20	---	6.1-7.3	0	0	0	0
	11-19	5.0-20	---	5.6-7.3	0	0	0	0
	19-48	5.0-20	---	5.6-7.3	0	0	0	0
	48-62	5.0-15	---	5.6-7.3	0	0	0	0
Horsethief-----	0-2	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	2-5	10-20	---	5.1-6.0	0	0	0	0
	5-16	5.0-15	---	5.1-6.0	0	0	0	0
	16-24	5.0-15	---	5.1-6.0	0	0	0	0
	24-32	10-20	---	5.1-6.0	0	0	0	0
	32-49	10-20	---	5.1-6.0	0	0	0	0
	49-62	10-20	---	5.1-7.3	0	0	0	0
155:								
Tuckerville-----	0-3	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	3-6	5.0-20	---	6.1-7.3	0	0	0	0
	6-21	5.0-15	---	6.1-7.3	0	0	0	0
	21-26	5.0-20	---	5.6-7.3	0	0	0	0
	26-47	5.0-20	---	5.6-7.3	0	0	0	0
	47-63	5.0-15	---	5.6-7.3	0	0	0	0
Rock outcrop-----	0-60	---	---	---	---	---	---	---

Table 25.--Chemical properties of the soils--Continued

Map symbol and soil name	Depth	Cation exchange capacity	Effective cation exchange capacity	Soil reaction	Calcium carbon- ate	Gypsum	Salinity	Sodium adsorp- tion ratio
	In.	meq/100 g	meq/100 g	pH	Pct.	Pct.	mmhos/cm	
156:								
Sponsor-----	0-1	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	1-7	10-25	---	5.6-6.5	0	0	0	0
	7-12	10-25	---	5.6-6.5	0	0	0	0
	12-25	10-25	---	6.1-7.3	0	0	0	0
	25-43	10-25	---	6.1-7.3	0	0	0	0
	43-61	10-20	---	6.1-7.3	0	0	0	0
Tuckerville-----	0-3	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	3-6	5.0-20	---	6.1-7.3	0	0	0	0
	6-21	5.0-15	---	6.1-7.3	0	0	0	0
	21-26	5.0-20	---	5.6-7.3	0	0	0	0
	26-47	5.0-20	---	5.6-7.3	0	0	0	0
	47-63	5.0-15	---	5.6-7.3	0	0	0	0
157:								
Sponsor-----	0-1	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	1-7	10-25	---	5.6-6.5	0	0	0	0
	7-12	10-25	---	5.6-6.5	0	0	0	0
	12-25	10-25	---	6.1-7.3	0	0	0	0
	25-43	10-25	---	6.1-7.3	0	0	0	0
	43-61	10-20	---	6.1-7.3	0	0	0	0
Tuckerville-----	0-3	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	3-6	5.0-20	---	6.1-7.3	0	0	0	0
	6-21	5.0-20	---	6.1-7.3	0	0	0	0
	21-26	5.0-25	---	5.6-7.3	0	0	0	0
	26-47	5.0-25	---	5.6-7.3	0	0	0	0
	47-63	5.0-15	---	5.6-7.3	0	0	0	0
158:								
Sponsor-----	0-1	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	1-7	10-25	---	5.6-6.5	0	0	0	0
	7-12	10-25	---	5.6-6.5	0	0	0	0
	12-25	10-25	---	6.1-7.3	0	0	0	0
	25-43	10-25	---	6.1-7.3	0	0	0	0
	43-61	10-20	---	6.1-7.3	0	0	0	0
Tuckerville-----	0-3	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	3-6	5.0-20	---	6.1-7.3	0	0	0	0
	6-21	5.0-15	---	6.1-7.3	0	0	0	0
	21-26	5.0-20	---	5.6-7.3	0	0	0	0
	26-47	5.0-20	---	5.6-7.3	0	0	0	0
	47-63	5.0-15	---	5.6-7.3	0	0	0	0

Table 25.--Chemical properties of the soils--Continued

Map symbol and soil name	Depth	Cation exchange capacity	Effective cation exchange capacity	Soil reaction	Calcium carbon- ate	Gypsum	Salinity	Sodium adsorp- tion ratio
	In.	meq/100 g	meq/100 g	pH	Pct.	Pct.	mmhos/cm	
159:								
Tuckerville-----	0-3	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	3-6	5.0-15	---	6.1-7.3	0	0	0	0
	6-21	5.0-15	---	6.1-7.3	0	0	0	0
	21-26	5.0-20	---	5.6-7.3	0	0	0	0
	26-47	5.0-20	---	5.6-7.3	0	0	0	0
	47-63	5.0-15	---	5.6-7.3	0	0	0	0
160:								
Anvik-----	0-1	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	1-7	10-25	---	5.6-7.3	0	0	0	0
	7-11	10-25	---	5.6-7.3	0	0	0	0
	11-22	5.0-15	---	5.6-7.3	0	0	0	0
	22-31	10-25	---	6.1-7.3	0	0	0	0
	31-45	10-25	---	6.1-7.3	0	0	0	0
	45-61	10-25	---	6.1-7.3	0	0	0	0
Tuckerville-----	0-3	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	3-6	5.0-20	---	6.1-7.3	0	0	0	0
	6-21	5.0-20	---	6.1-7.3	0	0	0	0
	21-26	5.0-25	---	5.6-7.3	0	0	0	0
	26-47	5.0-25	---	5.6-7.3	0	0	0	0
	47-63	5.0-15	---	5.6-7.3	0	0	0	0
161:								
Needleton-----	0-2	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	2-16	5.0-20	---	5.1-6.0	0	0	0	0
	16-26	10-25	---	4.5-6.5	0	0	0	0
	26-48	10-25	---	4.5-6.5	0	0	0	0
	48-62	10-25	---	4.5-6.5	0	0	0	0
162:								
Quazar-----	0-12	10-25	---	6.1-7.3	0	0	0	0
	12-26	15-30	---	6.1-7.3	0	0	0	0
	26-60	10-20	---	6.1-7.3	0	0	0	0
Varden-----	0-15	10-25	---	6.1-7.3	0	0	0	0
	15-30	5.0-20	---	6.1-7.3	0	0	0	0
	30-60	5.0-15	---	6.1-7.3	0	0	0	0

Table 25.--Chemical properties of the soils--Continued

Map symbol and soil name	Depth	Cation exchange capacity	Effective cation exchange capacity	Soil reaction	Calcium carbon- ate	Gypsum	Salinity	Sodium adsorp- tion ratio
	In.	meq/100 g	meq/100 g	pH	Pct.	Pct.	mmhos/cm	
163:								
Clayburn-----	0-5	10-25	---	6.1-7.3	0	0	0	0
	5-13	10-25	---	6.1-7.3	0	0	0	0
	13-18	10-25	---	6.1-7.3	0	0	0	0
	18-36	10-25	---	6.1-7.3	0	0	0	0
	36-48	10-25	---	6.1-7.3	0	0	0	0
	48-60	10-25	---	6.1-7.3	0	0	0	0
Hourglass-----	0-11	10-25	---	6.1-7.3	0	0	0	0
	11-18	10-25	---	6.1-7.3	0	0	0	0
	18-31	10-25	---	6.1-7.3	0	0	0	0
	31-46	10-25	---	6.1-7.3	0	0	0	0
	46-60	10-20	---	6.1-7.3	0	0	0	0
164:								
Hourglass-----	0-11	10-25	---	6.1-7.3	0	0	0	0
	11-18	10-25	---	6.1-7.3	0	0	0	0
	18-31	10-25	---	6.1-7.3	0	0	0	0
	31-46	10-25	---	6.1-7.3	0	0	0	0
	46-60	10-20	---	6.1-7.3	0	0	0	0
Bucklon-----	0-1	10-30	---	6.1-7.3	0	0	0	0
	1-12	10-30	---	6.1-7.3	0	0	0	0
	12-22	---	---	---	---	---	---	---
Wander-----	0-14	10-25	---	5.6-7.3	0	0	0	0
	14-27	10-25	---	5.6-7.3	0	0	0	0
	27-40	10-25	---	5.6-7.3	0	0	0	0
	40-60	10-25	---	5.6-7.3	0	0	0	0
165:								
Pinacol-----	0-1	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	1-4	10-20	---	6.1-7.3	0	0	0	0
	4-13	10-20	---	6.1-7.3	0	0	0	0
	13-20	15-25	---	6.1-7.3	0	0	0	0
	20-33	20-40	---	6.1-7.3	0	0	0	0
	33-49	15-25	---	6.1-7.3	0	0	0	0
	49-61	10-30	---	6.1-7.3	0	0	0	0

Table 25.--Chemical properties of the soils--Continued

Map symbol and soil name	Depth	Cation exchange capacity	Effective cation exchange capacity	Soil reaction	Calcium carbon- ate	Gypsum	Salinity	Sodium adsorp- tion ratio
	In.	meq/100 g	meq/100 g	pH	Pct.	Pct.	mmhos/cm	
166:								
Pinacol-----	0-1	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	1-4	10-20	---	6.1-7.3	0	0	0	0
	4-13	10-20	---	6.1-7.3	0	0	0	0
	13-20	15-25	---	6.1-7.3	0	0	0	0
	20-33	20-40	---	6.1-7.3	0	0	0	0
	33-49	15-25	---	6.1-7.3	0	0	0	0
	49-61	10-30	---	6.1-7.3	0	0	0	0
250:								
Snowdon-----	0-2	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	2-6	5.0-20	---	4.5-6.5	0	0	0	0
	6-13	5.0-15	---	4.5-6.5	0	0	0	0
	13-20	10-20	---	4.5-6.5	0	0	0	0
	20-24	---	---	---	---	---	---	---
Rock outcrop-----	0-60	---	---	---	---	---	---	---
251:								
Rock outcrop-----	0-60	---	---	---	---	---	---	---
Snowdon-----	0-2	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	2-6	5.0-20	---	4.5-6.5	0	0	0	0
	6-13	5.0-15	---	4.5-6.5	0	0	0	0
	13-20	10-20	---	4.5-6.5	0	0	0	0
	20-24	---	---	---	---	---	---	---
254:								
Typic Cryorthents----	0-5	10-20	---	5.6-7.3	0	0	0	0
	5-60	5.0-20	---	5.6-7.3	0	0	0	0
Rubble land-----	0-60	---	---	---	0	0	0	0
330:								
Needleton-----	0-2	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	2-16	5.0-20	---	5.1-6.0	0	0	0	0
	16-26	10-25	---	4.5-6.5	0	0	0	0
	26-48	10-25	---	4.5-6.5	0	0	0	0
	48-62	10-25	---	4.5-6.5	0	0	0	0

Table 25.--Chemical properties of the soils--Continued

Map symbol and soil name	Depth	Cation exchange capacity	Effective cation exchange capacity	Soil reaction	Calcium carbon- ate	Gypsum	Salinity	Sodium adsorp- tion ratio
	In.	meq/100 g	meq/100 g	pH	Pct.	Pct.	mmhos/cm	
331: Needleton-----	0-2	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	2-16	5.0-20	---	5.1-6.0	0	0	0	0
	16-26	10-25	---	4.5-6.5	0	0	0	0
	26-48	10-25	---	4.5-6.5	0	0	0	0
	48-62	10-25	---	4.5-6.5	0	0	0	0
332: Horsethief-----	0-2	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	2-21	10-20	---	5.1-6.0	0	0	0	0
	21-30	5.0-15	---	5.1-6.0	0	0	0	0
	30-38	10-20	---	5.1-6.0	0	0	0	0
	38-55	10-20	---	5.1-6.0	0	0	0	0
	55-62	10-20	---	5.1-7.3	0	0	0	0
Needleton-----	0-2	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	2-16	5.0-20	---	5.1-6.0	0	0	0	0
	16-26	10-25	---	4.5-6.5	0	0	0	0
	26-48	10-25	---	4.5-6.5	0	0	0	0
	48-62	10-25	---	4.5-6.5	0	0	0	0
333: Henson, south aspect-	0-1	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	1-5	---	5.0-15	4.5-5.5	0	0	0	0
	5-13	---	5.0-20	4.5-5.5	0	0	0	0
	13-25	---	5.0-20	4.5-5.5	0	0	0	0
	25-61	---	2.0-15	4.5-5.5	0	0	0	0
334: Henson, south aspect-	0-1	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	1-5	---	5.0-15	4.5-5.5	0	0	0	0
	5-13	---	5.0-20	4.5-5.5	0	0	0	0
	13-25	---	5.0-20	4.5-5.5	0	0	0	0
	25-61	---	2.0-15	4.5-5.5	0	0	0	0
335: Whitcross-----	0-1	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	1-4	5.0-20	---	5.1-6.0	0	0	0	0
	4-10	---	2.0-10	4.5-6.0	0	0	0	0
	10-19	---	2.0-10	4.5-6.0	0	0	0	0
	19-23	---	---	---	---	---	---	---
Rock outcrop-----	0-60	---	---	---	---	---	---	---

Table 25.--Chemical properties of the soils--Continued

Map symbol and soil name	Depth	Cation exchange capacity	Effective cation exchange capacity	Soil reaction	Calcium carbon- ate	Gypsum	Salinity	Sodium adsorp- tion ratio
	In.	meq/100 g	meq/100 g	pH	Pct.	Pct.	mmhos/cm	
336: Whitecross, south aspect-----	0-1	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	1-4	5.0-20	---	5.1-6.0	0	0	0	0
	4-10	---	2.0-10	4.5-6.0	0	0	0	0
	10-19	---	2.0-10	4.5-6.0	0	0	0	0
	19-23	---	---	---	---	---	---	---
Rock outcrop-----	0-60	---	---	---	---	---	---	---
337: Whitecross-----	0-1	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	1-4	5.0-20	---	5.1-6.0	0	0	0	0
	4-10	---	2.0-10	4.5-6.0	0	0	0	0
	10-19	---	2.0-10	4.5-6.0	0	0	0	0
	19-23	---	---	---	---	---	---	---
Rock outcrop-----	0-60	---	---	---	---	---	---	---
338: Henson-----	0-1	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	1-5	---	5.0-15	4.5-5.5	0	0	0	0
	5-13	---	5.0-20	4.5-5.5	0	0	0	0
	13-25	---	5.0-20	4.5-5.5	0	0	0	0
	25-61	---	2.0-15	4.5-5.5	0	0	0	0
339: Henson-----	0-1	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	1-5	---	5.0-15	4.5-5.5	0	0	0	0
	5-13	---	5.0-20	4.5-5.5	0	0	0	0
	13-25	---	5.0-20	4.5-5.5	0	0	0	0
	25-61	---	2.0-15	4.5-5.5	0	0	0	0
340: Moran-----	0-1	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	1-10	10-25	---	4.5-6.0	0	0	0	0
	10-27	10-20	---	4.5-6.0	0	0	0	0
	27-61	5.0-15	---	4.5-6.0	0	0	0	0
341: Moran-----	0-1	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	1-10	10-25	---	4.5-6.0	0	0	0	0
	10-27	10-20	---	4.5-6.0	0	0	0	0
	27-61	5.0-15	---	4.5-6.0	0	0	0	0

Table 25.--Chemical properties of the soils--Continued

Map symbol and soil name	Depth	Cation exchange capacity	Effective cation exchange capacity	Soil reaction	Calcium carbon- ate	Gypsum	Salinity	Sodium adsorp- tion ratio
	In.	meq/100 g	meq/100 g	pH	Pct.	Pct.	mmhos/cm	
342:								
Telluride-----	0-1	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	1-7	---	5.0-20	4.5-6.0	0	0	0	0
	7-12	---	5.0-20	4.5-6.0	0	0	0	0
	12-19	---	2.0-15	4.5-6.0	0	0	0	0
	19-22	---	---	---	---	---	---	---
Rock outcrop-----	0-60	---	---	---	---	---	---	---
343:								
Telluride-----	0-1	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	1-7	---	5.0-20	4.5-6.0	0	0	0	0
	7-12	---	5.0-20	4.5-6.0	0	0	0	0
	12-19	---	2.0-15	4.5-6.0	0	0	0	0
	19-22	---	---	---	---	---	---	---
Rock outcrop-----	0-60	---	---	---	---	---	---	---
345:								
Papaspila-----	0-4	10-25	---	6.6-7.3	0	0	0	0
	4-18	10-25	---	6.6-7.3	0	0	0	0
	18-25	10-20	---	6.6-7.3	0	0	0	0
	25-33	10-20	---	6.6-7.3	0	0	0	0
	33-39	10-25	---	6.6-7.3	0	0	0	0
	39-54	10-25	---	6.6-7.3	0	0	0	0
	54-60	10-25	---	6.6-7.3	0	0	0	0
350:								
Flygare-----	0-1	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	1-5	10-25	---	6.6-7.3	0	0	0	0
	5-9	10-25	---	6.6-7.3	0	0	0	0
	9-18	10-25	---	6.6-7.3	0	0	0	0
	18-23	10-25	---	6.6-7.3	0	0	0	0
	23-28	10-25	---	6.6-7.3	0	0	0	0
	28-38	10-25	---	6.6-7.3	0	0	0	0
	38-47	10-20	---	6.6-7.3	0	0	0	0
	47-55	10-20	---	6.6-7.3	0	0	0	0
	55-61	10-20	---	6.6-7.3	0	0	0	0

Table 25.--Chemical properties of the soils--Continued

Map symbol and soil name	Depth	Cation exchange capacity	Effective cation exchange capacity	Soil reaction	Calcium carbon- ate	Gypsum	Salinity	Sodium adsorp- tion ratio
	In.	meq/100 g	meq/100 g	pH	Pct.	Pct.	mmhos/cm	
350:								
Foidel-----	0-6	10-25	---	6.6-7.3	0	0	0	0
	6-17	10-25	---	6.6-7.3	0	0	0	0
	17-26	10-25	---	6.6-7.3	0	0	0	0
	26-32	10-25	---	6.6-7.3	0	0	0	0
	32-38	10-20	---	6.6-7.3	0	0	0	0
	38-45	15-25	---	6.6-7.3	0	0	0	0
	45-56	10-20	---	6.6-7.3	0	0	0	0
	56-60	10-20	---	6.6-7.3	0	0	0	0
355:								
Flygare-----	0-1	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	1-5	10-25	---	6.6-7.3	0	0	0	0
	5-9	10-25	---	6.6-7.3	0	0	0	0
	9-16	10-25	---	6.6-7.3	0	0	0	0
	16-23	10-25	---	6.6-7.3	0	0	0	0
	23-28	10-25	---	6.6-7.3	0	0	0	0
	28-38	10-25	---	6.6-7.3	0	0	0	0
	38-47	10-20	---	6.6-7.3	0	0	0	0
	47-55	10-20	---	6.6-7.3	0	0	0	0
	55-61	10-20	---	6.6-7.3	0	0	0	0
Foidel-----	0-6	10-25	---	6.6-7.3	0	0	0	0
	6-17	10-25	---	6.6-7.3	0	0	0	0
	17-26	10-25	---	6.6-7.3	0	0	0	0
	26-32	10-25	---	6.6-7.3	0	0	0	0
	32-38	10-20	---	6.6-7.3	0	0	0	0
	38-45	15-25	---	6.6-7.3	0	0	0	0
	45-56	10-20	---	6.6-7.3	0	0	0	0
	56-60	10-20	---	6.6-7.3	0	0	0	0
360:								
Blacksnag-----	0-3	10-20	---	5.6-6.5	0	0	0	0
	3-8	10-20	---	5.6-6.5	0	0	0	0
	8-16	5.0-20	---	5.6-6.5	0	0	0	0
	16-28	5.0-20	---	5.6-6.5	0	0	0	0
	28-36	5.0-20	---	5.6-6.5	0	0	0	0
	36-49	5.0-20	---	5.6-6.5	0	0	0	0
	49-60	5.0-20	---	5.6-6.5	0	0	0	0

Table 25.--Chemical properties of the soils--Continued

Map symbol and soil name	Depth	Cation exchange capacity	Effective cation exchange capacity	Soil reaction	Calcium carbon- ate	Gypsum	Salinity	Sodium adsorp- tion ratio
	In.	meq/100 g	meq/100 g	pH	Pct.	Pct.	mmhos/cm	
360: Peeler-----	0-2	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	2-5	5.0-20	---	5.6-6.5	0	0	0	0
	5-10	5.0-20	---	5.6-6.5	0	0	0	0
	10-18	10-20	---	5.6-6.5	0	0	0	0
	18-24	10-20	---	5.6-6.5	0	0	0	0
	24-35	5.0-20	---	5.6-6.5	0	0	0	0
	35-44	5.0-20	---	5.6-6.5	0	0	0	0
	44-62	5.0-20	---	5.6-6.5	0	0	0	0
361: Blacksnag-----	0-3	10-20	---	5.6-6.5	0	0	0	0
	3-8	10-20	---	5.6-6.5	0	0	0	0
	8-16	5.0-20	---	5.6-6.5	0	0	0	0
	16-28	5.0-20	---	5.6-6.5	0	0	0	0
	28-36	5.0-20	---	5.6-6.5	0	0	0	0
	36-49	5.0-20	---	5.6-6.5	0	0	0	0
	49-60	5.0-20	---	5.6-6.5	0	0	0	0
Peeler-----	0-2	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	2-5	5.0-20	---	5.6-6.5	0	0	0	0
	5-10	5.0-20	---	5.6-6.5	0	0	0	0
	10-18	10-20	---	5.6-6.5	0	0	0	0
	18-24	10-20	---	5.6-6.5	0	0	0	0
	24-35	5.0-20	---	5.6-6.5	0	0	0	0
	35-44	5.0-20	---	5.6-6.5	0	0	0	0
	44-62	5.0-20	---	5.6-6.5	0	0	0	0
374: Mavreeso-----	0-5	15-25	---	6.1-7.8	0-2	0	0	0
	5-10	15-25	---	6.1-7.8	0-2	0	0	0
	10-18	10-20	---	6.6-7.8	0-2	0	0	0
	18-28	10-20	---	6.6-7.8	0-2	0	0	0
	28-42	5.0-20	---	7.4-8.4	1-5	0	0	0
	42-50	10-20	---	7.4-8.4	1-10	0	0	0
	50-60	5.0-15	---	7.4-8.4	1-10	0	0	0
Valto-----	0-2	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	2-4	3.0-15	---	6.1-7.3	0	0	0	0
	4-14	2.0-15	---	6.1-7.3	0	0	0	0
	14-18	---	---	---	---	---	---	---
Rock outcrop-----	0-60	---	---	---	---	---	---	---

Table 25.--Chemical properties of the soils--Continued

Map symbol and soil name	Depth	Cation exchange capacity	Effective cation exchange capacity	Soil reaction	Calcium carbon- ate	Gypsum	Salinity	Sodium adsorp- tion ratio
	In.	meq/100 g	meq/100 g	pH	Pct.	Pct.	mmhos/cm	
375:								
Needleton-----	0-2	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	2-16	5.0-20	---	5.1-6.0	0	0	0	0
	16-26	10-25	---	4.5-6.5	0	0	0	0
	26-48	10-25	---	4.5-6.5	0	0	0	0
	48-62	10-25	---	4.5-6.5	0	0	0	0
Snowdon-----	0-2	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	2-6	5.0-20	---	4.5-6.5	0	0	0	0
	6-13	5.0-15	---	4.5-6.5	0	0	0	0
	13-20	10-20	---	4.5-6.5	0	0	0	0
	20-22	---	---	---	---	---	---	---
376:								
Needleton-----	0-2	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	2-16	5.0-20	---	5.1-6.0	0	0	0	0
	16-26	10-25	---	4.5-6.5	0	0	0	0
	26-48	10-25	---	4.5-6.5	0	0	0	0
	48-62	10-25	---	4.5-6.5	0	0	0	0
378:								
Needleton-----	0-2	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	2-16	5.0-20	---	5.1-6.0	0	0	0	0
	16-26	10-25	---	4.5-6.5	0	0	0	0
	26-48	10-25	---	4.5-6.5	0	0	0	0
	48-62	10-25	---	4.5-6.5	0	0	0	0
Haviland-----	0-1	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	1-6	---	2.0-15	4.5-5.5	0	0	0	0
	6-19	---	2.0-15	4.5-5.5	0	0	0	0
	19-33	---	2.0-20	4.5-5.5	0	0	0	0
	33-61	---	5.0-15	4.5-5.5	0	0	0	0
380:								
Snowdon-----	0-2	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	2-6	5.0-20	---	5.6-7.3	0	0	0	0
	6-13	5.0-15	---	6.1-7.3	0	0	0	0
	13-20	10-20	---	6.1-7.3	0	0	0	0
	20-24	---	---	---	---	---	---	---
Rock outcrop-----	0-60	---	---	---	---	---	---	---

Table 25.--Chemical properties of the soils--Continued

Map symbol and soil name	Depth	Cation exchange capacity	Effective cation exchange capacity	Soil reaction	Calcium carbon- ate	Gypsum	Salinity	Sodium adsorp- tion ratio
	In.	meq/100 g	meq/100 g	pH	Pct.	Pct.	mmhos/cm	
381:								
Needleton-----	0-2	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	2-16	5.0-20	---	5.1-6.0	0	0	0	0
	16-26	10-25	---	4.5-6.5	0	0	0	0
	26-48	10-25	---	4.5-6.5	0	0	0	0
	48-62	10-25	---	4.5-6.5	0	0	0	0
Snowdon-----	0-2	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	2-6	5.0-20	---	4.5-6.5	0	0	0	0
	6-13	5.0-15	---	4.5-6.5	0	0	0	0
	13-20	10-20	---	4.5-6.5	0	0	0	0
	20-24	---	---	---	---	---	---	---
Rock outcrop-----	0-60	---	---	---	---	---	---	---
382:								
Needleton-----	0-2	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	2-16	5.0-20	---	5.1-6.0	0	0	0	0
	16-26	10-25	---	4.5-6.5	0	0	0	0
	26-48	10-25	---	4.5-6.5	0	0	0	0
	48-62	10-25	---	4.5-6.5	0	0	0	0
Snowdon-----	0-2	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	2-6	5.0-20	---	4.5-6.5	0	0	0	0
	6-13	5.0-15	---	4.5-6.5	0	0	0	0
	13-20	10-20	---	4.5-6.5	0	0	0	0
	20-24	---	---	---	---	---	---	---
383:								
Haviland-----	0-1	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	1-6	---	2.0-15	4.5-5.5	0	0	0	0
	6-19	---	2.0-15	4.5-5.5	0	0	0	0
	19-33	---	2.0-20	4.5-5.5	0	0	0	0
	33-61	---	5.0-15	4.5-5.5	0	0	0	0
Needleton-----	0-2	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	2-16	5.0-20	---	5.1-6.0	0	0	0	0
	16-26	10-25	---	4.5-6.5	0	0	0	0
	26-48	10-25	---	4.5-6.5	0	0	0	0
	48-62	10-25	---	4.5-6.5	0	0	0	0

Table 25.--Chemical properties of the soils--Continued

Map symbol and soil name	Depth	Cation exchange capacity	Effective cation exchange capacity	Soil reaction	Calcium carbon- ate	Gypsum	Salinity	Sodium adsorp- tion ratio
	In.	meq/100 g	meq/100 g	pH	Pct.	Pct.	mmhos/cm	
386: Needleton-----	0-2	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	2-16	5.0-20	---	5.1-6.0	0	0	0	0
	16-26	10-25	---	4.5-6.5	0	0	0	0
	26-48	10-25	---	4.5-6.5	0	0	0	0
	48-62	10-25	---	4.5-6.5	0	0	0	0
387: Frisco-----	0-2	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	2-5	5.0-20	---	6.1-7.3	0	0	0	0
	5-11	5.0-20	---	6.1-7.3	0	0	0	0
	11-19	5.0-20	---	5.6-7.3	0	0	0	0
	19-48	5.0-20	---	5.6-7.3	0	0	0	0
	48-62	5.0-15	---	5.6-7.3	0	0	0	0
Quazar-----	0-12	10-25	---	6.1-7.3	0	0	0	0
	12-26	15-30	---	6.1-7.3	0	0	0	0
	26-60	10-20	---	6.1-7.3	0	0	0	0
388: Frisco-----	0-2	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	2-5	5.0-20	---	6.1-7.3	0	0	0	0
	5-11	5.0-20	---	6.1-7.3	0	0	0	0
	11-19	5.0-20	---	5.6-7.3	0	0	0	0
	19-48	5.0-20	---	5.6-7.3	0	0	0	0
	48-62	5.0-15	---	5.6-7.3	0	0	0	0
Quazar-----	0-12	10-25	---	6.1-7.3	0	0	0	0
	12-26	15-30	---	6.1-7.3	0	0	0	0
	26-60	10-20	---	6.1-7.3	0	0	0	0
389: Seitz-----	0-2	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	2-4	5.0-20	---	6.1-7.3	0	0	0	0
	4-11	5.0-20	---	6.1-7.3	0	0	0	0
	11-18	5.0-25	---	6.1-7.3	0	0	0	0
	18-42	20-45	---	6.1-7.3	0	0	0	0
	42-62	15-35	---	6.1-7.3	0	0	0	0

Table 25.--Chemical properties of the soils--Continued

Map symbol and soil name	Depth	Cation exchange capacity	Effective cation exchange capacity	Soil reaction	Calcium carbon- ate	Gypsum	Salinity	Sodium adsorp- tion ratio
	In.	meq/100 g	meq/100 g	pH	Pct.	Pct.	mmhos/cm	
390:								
Clayburn-----	0-5	10-25	---	6.1-7.3	0	0	0	0
	5-13	10-25	---	6.1-7.3	0	0	0	0
	13-18	10-25	---	6.1-7.3	0	0	0	0
	18-36	10-25	---	6.1-7.3	0	0	0	0
	36-48	10-25	---	6.1-7.3	0	0	0	0
	48-60	10-25	---	6.1-7.3	0	0	0	0
Heisspitz-----	0-9	10-25	---	5.6-6.5	0	0	0	0
	9-14	10-25	---	5.6-6.5	0	0	0	0
	14-18	---	---	---	---	---	---	---
391:								
Runlett-----	0-14	10-25	---	5.6-6.5	0	0	0	0
	14-19	10-25	---	5.6-6.5	0	0	0	0
	19-22	15-25	---	5.6-7.3	0	0	0	0
	22-27	20-40	---	5.6-7.3	0	0	0	0
	27-31	---	---	---	---	---	---	---
Sessions-----	0-3	15-30	---	6.1-7.3	0	0	0	0
	3-11	15-30	---	6.1-7.3	0	0	0	0
	11-19	20-40	---	6.1-7.3	0	0	0	0
	19-34	20-40	---	6.1-7.3	0	0	0	0
	34-48	20-40	---	6.1-7.3	0	0	0	0
	48-60	10-30	---	6.1-7.3	0	0	0	0
392:								
Runlett-----	0-14	10-25	---	5.6-6.5	0	0	0	0
	14-19	10-25	---	5.6-6.5	0	0	0	0
	19-22	15-25	---	5.6-7.3	0	0	0	0
	22-27	20-40	---	5.6-7.3	0	0	0	0
	27-31	---	---	---	---	---	---	---
Needleton-----	0-2	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	2-16	5.0-20	---	5.1-6.0	0	0	0	0
	16-26	10-25	---	4.5-6.5	0	0	0	0
	26-48	10-25	---	4.5-6.5	0	0	0	0
	48-62	10-25	---	4.5-6.5	0	0	0	0
Sessions-----	0-3	15-30	---	6.1-7.3	0	0	0	0
	3-11	15-30	---	6.1-7.3	0	0	0	0
	11-19	20-40	---	6.1-7.3	0	0	0	0
	19-34	20-40	---	6.1-7.3	0	0	0	0
	34-48	20-40	---	6.1-7.3	0	0	0	0
	48-60	10-30	---	6.1-7.3	0	0	0	0

Table 25.--Chemical properties of the soils--Continued

Map symbol and soil name	Depth	Cation exchange capacity	Effective cation exchange capacity	Soil reaction	Calcium carbon- ate	Gypsum	Salinity	Sodium adsorp- tion ratio
	In.	meq/100 g	meq/100 g	pH	Pct.	Pct.	mmhos/cm	
393:								
Heisspitz-----	0-9	10-25	---	5.6-6.5	0	0	0	0
	9-14	10-25	---	5.6-6.5	0	0	0	0
	14-18	---	---	---	---	---	---	---
Sessions-----	0-3	15-30	---	6.1-7.3	0	0	0	0
	3-11	15-30	---	6.1-7.3	0	0	0	0
	11-19	20-40	---	6.1-7.3	0	0	0	0
	19-34	20-40	---	6.1-7.3	0	0	0	0
	34-48	20-40	---	6.1-7.3	0	0	0	0
	48-60	10-30	---	6.1-7.3	0	0	0	0
Rock outcrop-----	0-60	---	---	---	---	---	---	---
394:								
Clayburn-----	0-5	10-25	---	6.1-7.3	0	0	0	0
	5-13	10-25	---	6.1-7.3	0	0	0	0
	13-18	10-25	---	6.1-7.3	0	0	0	0
	18-36	10-25	---	6.1-7.3	0	0	0	0
	36-48	10-25	---	6.1-7.3	0	0	0	0
	48-60	10-25	---	6.1-7.3	0	0	0	0
Heisspitz-----	0-9	10-25	---	5.6-6.5	0	0	0	0
	9-14	10-25	---	5.6-6.5	0	0	0	0
	14-18	---	---	---	---	---	---	---
395:								
Scout-----	0-1	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	1-2	5.0-15	---	5.6-6.5	0	0	0	0
	2-9	5.0-15	---	5.6-6.5	0	0	0	0
	9-17	5.0-15	---	5.6-6.5	0	0	0	0
	17-61	3.0-10	---	5.6-6.5	0	0	0	0
396:								
Scout-----	0-1	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	1-2	5.0-15	---	5.6-6.5	0	0	0	0
	2-9	5.0-15	---	5.6-6.5	0	0	0	0
	9-17	5.0-15	---	5.6-6.5	0	0	0	0
	17-61	3.0-10	---	5.6-6.5	0	0	0	0

Table 25.--Chemical properties of the soils--Continued

Map symbol and soil name	Depth	Cation exchange capacity	Effective cation exchange capacity	Soil reaction	Calcium carbon- ate	Gypsum	Salinity	Sodium adsorp- tion ratio
	In.	meq/100 g	meq/100 g	pH	Pct.	Pct.	mmhos/cm	
399:								
Kite-----	0-1	5.0-15	---	4.5-5.5	0	0	0	0
	1-4	5.0-15	---	4.5-5.5	0	0	0	0
	4-9	10-20	---	4.5-5.5	0	0	0	0
	9-14	2.0-15	---	4.5-5.5	0	0	0	0
	14-18	2.0-15	---	4.5-5.5	0	0	0	0
	18-22	---	---	---	---	---	---	---
Rock outcrop-----	0-60	---	---	---	---	---	---	---
450:								
Lostlake-----	0-2	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	2-6	5.0-20	---	4.5-5.5	0	0	0	0
	6-15	10-20	---	4.5-5.5	0	0	0	0
	15-19	---	---	---	---	---	---	---
Rock outcrop-----	0-60	---	---	---	---	---	---	---
452:								
Dystrocryepts-----	0-1	10-20	---	4.5-5.5	0	0	0	0
	1-9	10-20	---	4.5-5.5	0	0	0	0
	9-17	10-20	---	4.5-5.5	0	0	0	0
	17-21	---	---	---	---	---	---	---
Rock outcrop-----	0-60	---	---	---	---	---	---	---
453:								
Sig-----	0-2	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	2-9	5.0-20	---	5.1-6.0	0	0	0	0
	9-16	5.0-20	---	5.1-6.0	0	0	0	0
	16-20	---	---	---	---	---	---	---
Rock outcrop-----	0-60	---	---	---	---	---	---	---
Snowdon-----	0-2	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	2-6	5.0-20	---	4.5-6.5	0	0	0	0
	6-13	5.0-15	---	4.5-6.5	0	0	0	0
	13-20	10-20	---	4.5-6.5	0	0	0	0
	20-24	---	---	---	---	---	---	---

Table 25.--Chemical properties of the soils--Continued

Map symbol and soil name	Depth	Cation exchange capacity	Effective cation exchange capacity	Soil reaction	Calcium carbon- ate	Gypsum	Salinity	Sodium adsorp- tion ratio
	In.	meq/100 g	meq/100 g	pH	Pct.	Pct.	mmhos/cm	
454:								
Snowdon-----	0-2	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	2-6	5.0-20	---	4.5-6.5	0	0	0	0
	6-13	5.0-15	---	4.5-6.5	0	0	0	0
	13-20	10-20	---	4.5-6.5	0	0	0	0
	20-24	---	---	---	---	---	---	---
Sig-----	0-2	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	2-9	5.0-20	---	5.1-6.0	0	0	0	0
	9-16	5.0-20	---	5.1-6.0	0	0	0	0
	16-20	---	---	---	---	---	---	---
Rock outcrop-----	0-60	---	---	---	---	---	---	---
493:								
Badland-----	0-60	---	---	---	---	---	0	---
494:								
Pits, gravel-----	0-60	0.0-5.0	---	---	0-5	---	---	---
495:								
Riverwash-----	0-6	---	---	---	---	---	0	---
	6-60	---	---	---	---	---	0	---
496:								
Rock outcrop-----	0-60	---	---	---	---	---	---	---
497:								
Rubble land-----	0-60	---	---	---	0	0	0	0
498:								
Slickens-----	0-60	0.0-10	---	---	0	0	---	0
499:								
Water-----	---	---	---	---	---	---	---	---

Table 25.--Chemical properties of the soils--Continued

Map symbol and soil name	Depth	Cation exchange capacity	Effective cation exchange capacity	Soil reaction	Calcium carbon- ate	Gypsum	Salinity	Sodium adsorp- tion ratio
	In.	meq/100 g	meq/100 g	pH	Pct.	Pct.	mmhos/cm	
500: Dolores-----	0-1	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	1-3	15-30	---	6.6-7.3	0	0	0	0
	3-8	15-30	---	6.6-7.3	0	0	0	0
	8-10	15-35	---	6.6-7.8	0	0	0	0
	10-15	15-35	---	6.6-7.8	0	0	0	0
	15-24	15-35	---	6.6-7.8	0	0	0	0
	24-45	15-35	---	6.6-7.8	0	0	0	0
	45-49	15-35	---	6.6-7.8	0	0	0	0
	49-61	15-35	---	7.4-8.4	5-25	0	0.0-2.0	0
Fivepine-----	0-3	10-20	---	6.1-7.8	0	0	0	0
	3-9	10-25	---	6.1-7.8	0	0	0	0
	9-12	10-25	---	6.1-7.8	0	0	0	0
	12-15	15-30	---	6.1-7.8	0	0	0	0
	15-19	---	---	---	---	---	---	---
501: Fivepine-----	0-3	10-20	---	6.1-7.8	0	0	0	0
	3-9	10-25	---	6.1-7.8	0	0	0	0
	9-12	10-25	---	6.1-7.8	0	0	0	0
	12-15	15-30	---	6.1-7.8	0	0	0	0
	15-25	---	---	---	---	---	---	---
Nortez-----	0-3	10-25	---	6.6-7.8	0	0	0	0
	3-10	20-30	---	6.6-7.8	0	0	0	0
	10-32	30-50	---	6.6-8.4	0-1	0	0	0
	32-42	---	---	---	---	---	---	---
503: Ormiston-----	0-7	15-30	---	6.6-7.3	0	0	0	0
	7-24	20-50	---	6.6-7.8	0	0	0	0
	24-32	20-50	---	6.6-7.8	0-5	0	0	0
	32-44	15-35	---	7.4-8.4	15-40	0	0.0-2.0	0
	44-54	---	---	---	---	---	---	---
Fivepine-----	0-3	10-20	---	6.1-7.8	0	0	0	0
	3-9	10-25	---	6.1-7.8	0	0	0	0
	9-12	10-25	---	6.1-7.8	0	0	0	0
	12-15	15-30	---	6.1-7.8	0	0	0	0
	15-25	---	---	---	---	---	---	---

Table 25.--Chemical properties of the soils--Continued

Map symbol and soil name	Depth	Cation exchange capacity	Effective cation exchange capacity	Soil reaction	Calcium carbon- ate	Gypsum	Salinity	Sodium adsorp- tion ratio
	In.	meq/100 g	meq/100 g	pH	Pct.	Pct.	mmhos/cm	
504:								
Jemco-----	0-2	10-25	---	6.1-7.3	0	0	0	0
	2-7	10-25	---	6.1-7.3	0	0	0	0
	7-14	10-20	---	6.1-7.3	0	0	0	0
	14-22	10-20	---	6.1-7.3	0	0	0	0
	22-35	15-30	---	6.1-7.3	0	0	0	0
	35-39	15-30	---	6.1-7.3	0	0	0	0
	39-49	---	---	---	---	---	---	---
Detra-----	0-16	10-25	---	6.6-7.8	0	0	0	0
	16-30	10-25	---	6.6-7.8	0	0	0	0
	30-43	10-30	---	6.6-7.8	0	0	0	0
	43-51	10-30	---	6.6-7.8	0	0	0	0
	51-57	10-25	---	6.6-7.8	0	0	0	0
	57-61	---	---	---	---	---	---	---
Beje-----	0-2	10-25	---	6.6-7.3	0	0	0	0
	2-6	10-20	---	6.6-7.3	0	0	0	0
	6-14	5.0-25	---	6.6-7.3	0	0	0	0
	14-24	---	---	---	---	---	---	---
505:								
Moento-----	0-2	10-25	---	6.1-7.3	0	0	0	0
	2-6	15-30	---	6.1-7.3	0	0	0	0
	6-21	15-30	---	6.1-7.3	0	0	0	0
	21-30	10-25	---	6.1-7.3	0	0	0	0
	30-36	5.0-20	---	6.1-7.3	0	0	0	0
	36-40	---	---	---	---	---	---	---
506:								
Moento-----	0-2	10-25	---	6.1-7.3	0	0	0	0
	2-6	15-30	---	6.1-7.3	0	0	0	0
	6-12	10-25	---	6.1-7.3	0	0	0	0
	12-21	10-25	---	6.1-7.3	0	0	0	0
	21-30	10-25	---	6.1-7.3	0	0	0	0
	30-36	5.0-20	---	6.1-7.3	0	0	0	0
	36-40	---	---	---	---	---	---	---
Detra-----	0-16	10-25	---	6.6-7.8	0	0	0	0
	16-30	10-25	---	6.6-7.8	0	0	0	0
	30-43	10-30	---	6.6-7.8	0	0	0	0
	43-51	10-30	---	6.6-7.8	0	0	0	0
	51-57	10-25	---	6.6-7.8	0	0	0	0
	57-61	---	---	---	---	---	---	---

Table 25.--Chemical properties of the soils--Continued

Map symbol and soil name	Depth	Cation exchange capacity	Effective cation exchange capacity	Soil reaction	Calcium carbon- ate	Gypsum	Salinity	Sodium adsorp- tion ratio
	In.	meq/100 g	meq/100 g	pH	Pct.	Pct.	mmhos/cm	
506: Jemco-----	0-7	10-20	---	6.1-7.3	0	0	0	0
	7-14	5.0-20	---	6.1-7.3	0	0	0	0
	14-22	5.0-20	---	6.1-7.3	0	0	0	0
	22-35	15-30	---	6.1-7.3	0	0	0	0
	35-39	10-20	---	6.1-7.3	0	0	0	0
	39-43	---	---	---	---	---	---	---
508: Herm-----	0-6	15-25	---	6.1-7.3	0	0	0	0
	6-13	20-35	---	6.1-7.3	0	0	0	0
	13-17	20-40	---	6.1-7.8	0	0	0	0
	17-45	20-40	---	6.1-7.8	0	0	0	0
	45-60	20-30	---	6.6-8.4	0-5	0	0	0
Pagoda-----	0-1	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	1-5	10-25	---	6.6-7.8	0	0	0	0
	5-16	15-35	---	6.6-7.8	0-1	0	0	0
	16-21	15-35	---	6.6-7.8	0-1	0	0	0
	21-32	20-40	---	7.9-8.4	1-10	0	0	0
	32-61	15-35	---	7.9-8.4	1-10	0	0.0-2.0	0
509: Burnson, dry-----	0-1	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	1-4	10-25	---	6.1-7.3	0	0	0	0
	4-8	20-35	---	6.1-7.3	0	0	0	0
	8-18	20-40	---	6.1-7.3	0	0	0	0
	18-29	20-40	---	6.1-7.3	0	0	0	0
	29-44	20-40	---	6.8-7.8	0	0	0	0
	44-54	---	---	---	---	---	---	---
510: Jemco-----	0-7	10-20	---	6.1-7.3	0	0	0	0
	7-14	5.0-20	---	6.1-7.3	0	0	0	0
	14-22	5.0-20	---	6.1-7.3	0	0	0	0
	22-35	15-30	---	6.1-7.3	0	0	0	0
	35-39	15-30	---	6.1-7.3	0	0	0	0
	39-43	---	---	---	---	---	---	---

Table 25.--Chemical properties of the soils--Continued

Map symbol and soil name	Depth	Cation exchange capacity	Effective cation exchange capacity	Soil reaction	Calcium carbon- ate	Gypsum	Salinity	Sodium adsorp- tion ratio
	In.	meq/100 g	meq/100 g	pH	Pct.	Pct.	mmhos/cm	
510: Moento-----	0-2	10-25	---	6.1-7.3	0	0	0	0
	2-6	15-30	---	6.1-7.3	0	0	0	0
	6-12	15-30	---	6.1-7.3	0	0	0	0
	12-22	15-30	---	6.1-7.3	0	0	0	0
	22-30	10-25	---	6.1-7.3	0	0	0	0
	30-36	5.0-20	---	6.1-7.3	0	0	0	0
	36-40	---	---	---	---	---	---	---
511: Granath-----	0-2	10-25	---	6.6-7.8	0	0	0	0
	2-10	10-25	---	6.6-7.8	0	0	0	0
	10-15	15-35	---	6.6-7.8	0	0	0	0
	15-20	15-35	---	6.6-7.8	0	0	0	0
	20-28	15-30	---	6.6-7.8	0	0	0	0
	28-40	15-35	---	6.6-7.8	0-5	0	0	0
	40-49	15-35	---	7.9-8.4	1-15	0	0.0-2.0	0
	49-60	15-30	---	7.9-8.4	1-25	0	0.0-2.0	0
Fughes-----	0-1	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	1-8	10-25	---	6.1-6.5	0	0	0	0
	8-27	20-35	---	6.1-7.3	0	0	0	0
	27-45	25-45	---	6.1-7.3	0	0	0	0
	45-61	25-45	---	6.1-7.3	0	0	0	0
512: Wetherill-----	0-6	5.0-20	---	6.6-7.8	0	0	0	0
	6-20	10-25	---	6.6-7.8	0	0	0	0
	20-47	5.0-20	---	6.6-7.8	0-6	0	0	0
	47-60	5.0-15	---	7.9-8.4	15-30	0	0.0-2.0	0-4
513: Maudrey-----	0-4	10-25	---	5.6-6.5	0	0	0	0
	4-11	10-25	---	5.6-6.5	0	0	0	0
	11-19	10-25	---	5.6-6.5	0	0	0	0
	19-25	5.0-20	---	5.6-6.5	0	0	0	0
	25-31	5.0-20	---	5.6-6.5	0	0	0	0
	31-41	15-35	---	4.5-5.5	0	0	0	0
	41-54	15-35	---	4.5-5.5	0	0	0	0
	54-60	15-35	---	4.5-5.5	0	0	0	0

Table 25.--Chemical properties of the soils--Continued

Map symbol and soil name	Depth	Cation exchange capacity	Effective cation exchange capacity	Soil reaction	Calcium carbon- ate	Gypsum	Salinity	Sodium adsorp- tion ratio
	In.	meq/100 g	meq/100 g	pH	Pct.	Pct.	mmhos/cm	
513: Tombac-----	0-1	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	1-3	15-30	---	6.1-7.3	0	0	0	0
	3-12	15-30	---	6.1-7.3	0	0	0	0
	12-16	15-30	---	6.1-7.3	0	0	0	0
	16-26	25-40	---	6.1-7.3	0	0	0	0
	26-37	25-40	---	6.1-7.3	0	0	0	0
	37-46	25-40	---	6.1-7.3	0	0	0	0
	46-61	25-40	---	6.1-7.3	0	0	0	0
525: Arabrab-----	0-3	10-20	---	7.4-7.8	0	0	0.0-2.0	0
	3-7	10-25	---	7.4-7.8	0-2	0	0.0-2.0	0
	7-15	5.0-20	---	7.4-7.8	1-5	0	0.0-2.0	0
	15-19	---	---	---	---	---	---	---
526: Lonecone-----	0-6	15-30	---	6.6-7.8	0	0	0	0
	6-27	10-30	---	6.6-7.8	0	0	0	0
	27-30	10-20	---	6.6-7.8	0	0	0	0
	30-40	---	---	---	---	---	---	---
527: Ormiston-----	0-7	15-30	---	6.6-7.3	0	0	0	0
	7-24	20-50	---	6.6-7.8	0	0	0	0
	24-32	20-50	---	6.6-7.8	0-5	0	0	0
	32-44	15-35	---	7.4-8.4	15-40	0	0.0-2.0	0
	44-54	---	---	---	---	---	---	---
Beje-----	0-2	10-25	---	6.6-7.3	0	0	0	0
	2-6	10-20	---	6.6-7.3	0	0	0	0
	6-14	5.0-25	---	6.6-7.3	0	0	0	0
	14-24	---	---	---	---	---	---	---
552: Burnson-----	0-1	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	1-4	10-25	---	6.1-7.3	0	0	0	0
	4-8	20-35	---	6.1-7.3	0	0	0	0
	8-18	20-40	---	6.1-7.3	0	0	0	0
	18-29	20-40	---	6.1-7.3	0	0	0	0
	29-44	20-40	---	6.8-7.8	0	0	0	0
	44-54	---	---	---	---	---	---	---

Table 25.--Chemical properties of the soils--Continued

Map symbol and soil name	Depth	Cation exchange capacity	Effective cation exchange capacity	Soil reaction	Calcium carbon- ate	Gypsum	Salinity	Sodium adsorp- tion ratio
	In.	meq/100 g	meq/100 g	pH	Pct.	Pct.	mmhos/cm	
553:								
Burnson-----	0-1	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	1-4	10-25	---	6.1-7.3	0	0	0	0
	4-8	10-25	---	6.1-7.3	0	0	0	0
	8-18	20-40	---	6.1-7.3	0	0	0	0
	18-29	20-40	---	6.1-7.3	0	0	0	0
	29-44	20-40	---	6.8-7.8	0	0	0	0
	44-54	---	---	---	---	---	---	---
Herm-----	0-6	15-25	---	6.1-7.3	0	0	0	0
	6-13	20-35	---	6.1-7.3	0	0	0	0
	13-17	20-40	---	6.1-7.8	0	0	0	0
	17-45	20-40	---	6.1-7.8	0	0	0	0
	45-60	20-30	---	6.6-7.8	0-5	0	0	0
571:								
Mancos-----	0-8	10-25	---	5.6-7.3	0	0	0	0
	8-15	25-35	---	5.6-6.5	0	0	0	0
	15-21	20-45	---	5.6-6.5	0	0	0	0
	21-26	20-45	---	5.6-6.5	0	0	0	0
	26-34	15-25	---	5.6-7.3	0	0	0	0
	34-38	---	---	---	---	---	---	---
Skisams-----	0-5	10-25	---	6.1-7.3	0	0	0.0-2.0	0
	5-12	10-20	---	6.1-7.3	0	0	0.0-2.0	0
	12-16	---	---	---	---	---	---	---
Skutum-----	0-3	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	3-8	15-35	---	5.6-7.3	0	0	0	0
	8-20	20-40	---	5.6-7.3	0	0	0	0
	20-30	20-40	---	5.6-6.5	0	0	0	0
	30-47	20-40	---	5.6-6.5	0	0	0	0
	47-53	10-25	---	5.6-7.3	0	0	0	0
	53-63	---	---	---	---	---	---	---
572:								
Sudduth-----	0-3	10-25	---	5.6-6.0	0	0	0	0
	3-7	10-25	---	5.6-6.0	0	0	0	0
	7-13	25-40	---	5.6-6.0	0	0	0	0
	13-22	35-60	---	5.6-6.0	0	0	0	0
	22-38	15-35	---	5.6-6.0	0	0	0	0
	38-52	25-50	---	5.6-6.0	0	0	0	0
	52-60	25-50	---	5.6-6.0	0	0	0	0

Table 25.--Chemical properties of the soils--Continued

Map symbol and soil name	Depth	Cation exchange capacity	Effective cation exchange capacity	Soil reaction	Calcium carbon- ate	Gypsum	Salinity	Sodium adsorp- tion ratio
	In.	meq/100 g	meq/100 g	pH	Pct.	Pct.	mmhos/cm	
600: Valto-----	0-2	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	2-4	3.0-15	---	6.1-7.3	0	0	0	0
	4-14	2.0-15	---	6.1-7.3	0	0	0	0
	14-18	---	---	---	---	---	---	---
Rock outcrop-----	0-60	---	---	---	---	---	---	---
601: Weminuche-----	0-2	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	2-4	5.0-20	---	6.6-7.3	0	0	0	0
	4-11	5.0-20	---	6.1-7.3	0	0	0	0
	11-21	5.0-20	---	6.1-7.3	0	0	0	0
	21-34	5.0-20	---	6.1-7.3	0	0	0	0
	34-44	5.0-20	---	6.1-7.3	0	0	0	0
	44-62	5.0-20	---	6.1-7.3	0	0	0	0
602: Weminuche-----	0-2	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	2-4	5.0-20	---	6.6-7.3	0	0	0	0
	4-11	5.0-20	---	6.1-7.3	0	0	0	0
	11-21	5.0-20	---	6.1-7.3	0	0	0	0
	21-34	5.0-20	---	6.1-7.3	0	0	0	0
	34-44	5.0-20	---	6.1-7.3	0	0	0	0
	44-62	5.0-20	---	6.1-7.3	0	0	0	0
603: Weminuche-----	0-2	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	2-4	5.0-20	---	6.6-7.3	0	0	0	0
	4-11	5.0-20	---	6.1-7.3	0	0	0	0
	11-21	5.0-20	---	6.1-7.3	0	0	0	0
	21-34	5.0-20	---	6.1-7.3	0	0	0	0
	34-44	5.0-20	---	6.1-7.3	0	0	0	0
	44-62	5.0-20	---	6.1-7.3	0	0	0	0
Anvik-----	0-1	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	1-7	10-25	---	5.6-7.3	0	0	0	0
	7-11	10-25	---	5.6-7.3	0	0	0	0
	11-22	5.0-15	---	5.6-7.3	0	0	0	0
	22-31	10-25	---	6.1-7.3	0	0	0	0
	31-45	10-25	---	6.1-7.3	0	0	0	0
	45-61	10-25	---	6.1-7.3	0	0	0	0

Table 25.--Chemical properties of the soils--Continued

Map symbol and soil name	Depth	Cation exchange capacity	Effective cation exchange capacity	Soil reaction	Calcium carbon- ate	Gypsum	Salinity	Sodium adsorp- tion ratio
	In.	meq/100 g	meq/100 g	pH	Pct.	Pct.	mmhos/cm	
605: Nordicol-----	0-1	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	1-7	10-20	---	6.1-7.3	0	0	0	0
	7-20	10-20	---	6.1-7.3	0	0	0	0
	20-28	5.0-15	---	6.1-7.3	0	0	0	0
	28-52	10-30	---	5.6-7.3	0	0	0	0
	52-61	4.0-15	---	6.1-7.3	0	0	0	0
606: Snowdon-----	0-2	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	2-6	5.0-20	---	4.5-6.5	0	0	0	0
	6-13	5.0-20	---	4.5-6.5	0	0	0	0
	13-20	10-20	---	4.5-6.5	0	0	0	0
	20-24	---	---	---	---	---	---	---
Needleton-----	0-2	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	2-16	5.0-20	---	5.1-6.0	0	0	0	0
	16-26	10-25	---	4.5-6.5	0	0	0	0
	26-48	10-25	---	4.5-6.5	0	0	0	0
	48-62	10-25	---	4.5-6.5	0	0	0	0
607: Graysill-----	0-2	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	2-14	---	2.0-15	4.5-5.5	0	0	0	0
	14-22	---	5.0-20	4.5-5.5	0	0	0	0
	22-37	---	5.0-20	4.5-5.5	0	0	0	0
	37-41	---	---	---	---	---	---	---
Scotch-----	0-2	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	2-7	---	5.0-20	4.5-5.5	0	0	0	0
	7-17	---	5.0-20	4.5-5.5	0	0	0	0
	17-21	---	---	---	---	---	---	---
608: Scotch-----	0-2	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	2-7	---	5.0-20	4.5-5.5	0	0	0	0
	7-17	---	5.0-20	4.5-5.5	0	0	0	0
	17-21	---	---	---	---	---	---	---
Graysill-----	0-2	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	2-14	---	2.0-15	4.5-5.5	0	0	0	0
	14-22	---	5.0-20	4.5-5.5	0	0	0	0
	22-37	---	5.0-20	4.5-5.5	0	0	0	0
	37-41	---	---	---	---	---	---	---

Table 25.--Chemical properties of the soils--Continued

Map symbol and soil name	Depth	Cation exchange capacity	Effective cation exchange capacity	Soil reaction	Calcium carbon- ate	Gypsum	Salinity	Sodium adsorp- tion ratio
	In.	meq/100 g	meq/100 g	pH	Pct.	Pct.	mmhos/cm	
609:								
Hourglass-----	0-11	10-25	---	6.1-7.3	0	0	0	0
	11-18	10-25	---	6.1-7.3	0	0	0	0
	18-31	10-25	---	6.1-7.3	0	0	0	0
	31-46	10-25	---	6.1-7.3	0	0	0	0
	46-60	10-20	---	6.1-7.3	0	0	0	0
Wander-----	0-14	10-25	---	5.6-7.3	0	0	0	0
	14-27	10-25	---	5.6-7.3	0	0	0	0
	27-40	10-25	---	5.6-7.3	0	0	0	0
	40-60	10-25	---	5.6-7.3	0	0	0	0
610:								
Wander-----	0-14	10-25	---	5.6-7.3	0	0	0	0
	14-27	10-25	---	5.6-7.3	0	0	0	0
	27-40	10-25	---	5.6-7.3	0	0	0	0
	40-60	10-25	---	5.6-7.3	0	0	0	0
Hotter-----	0-4	5.0-15	---	6.1-7.3	0	0	0	0
	4-14	5.0-15	---	6.1-7.3	0	0	0	0
	14-18	---	---	---	---	---	---	---
Hourglass-----	0-11	10-25	---	6.1-7.3	0	0	0	0
	11-18	10-25	---	6.1-7.3	0	0	0	0
	18-31	10-25	---	6.1-7.3	0	0	0	0
	31-46	10-25	---	6.1-7.3	0	0	0	0
	46-60	10-20	---	6.1-7.3	0	0	0	0
611:								
Goldbug-----	0-1	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	1-10	5.0-15	---	6.1-7.3	0	0	0	0
	10-21	5.0-15	---	6.1-7.3	0	0	0	0
	21-29	5.0-25	---	6.1-7.3	0	0	0	0
	29-61	20-40	---	6.1-7.3	0	0	0	0
612:								
Haviland-----	0-2	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	2-14	---	2.0-15	4.5-5.5	0	0	0	0
	14-24	---	2.0-20	4.5-5.5	0	0	0	0
	24-62	---	5.0-15	4.5-5.5	0	0	0	0

Table 25.--Chemical properties of the soils--Continued

Map symbol and soil name	Depth	Cation exchange capacity	Effective cation exchange capacity	Soil reaction	Calcium carbon- ate	Gypsum	Salinity	Sodium adsorp- tion ratio
	In.	meq/100 g	meq/100 g	pH	Pct.	Pct.	mmhos/cm	
612: Graysill-----	0-2	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	2-14	---	2.0-15	4.5-5.5	0	0	0	0
	14-22	---	5.0-20	4.5-5.5	0	0	0	0
	22-37	---	5.0-20	4.5-5.5	0	0	0	0
	37-41	---	---	---	---	---	---	---
615: Haviland-----	0-2	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	2-14	---	2.0-15	4.5-5.5	0	0	0	0
	14-24	---	2.0-20	4.5-5.5	0	0	0	0
	24-62	---	5.0-15	4.5-5.5	0	0	0	0
616: Fortlewis-----	0-1	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	1-4	5.0-15	---	6.1-7.3	0	0	0	0
	4-12	5.0-15	---	6.1-7.3	0	0	0	0
	12-17	15-25	---	6.1-7.3	0	0	0	0
	17-27	20-35	---	6.1-7.3	0	0	0	0
	27-39	20-35	---	6.1-7.3	0	0	0	0
	39-43	---	---	---	---	---	---	---
617: Shawa-----	0-7	10-20	---	6.6-7.3	0	0	0	0
	7-19	10-20	---	6.6-7.3	0	0	0	0
	19-38	10-25	---	6.6-7.3	0	0	0	0
	38-60	10-25	---	6.6-7.3	0	0	0	0
618: Nordicol-----	0-2	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	2-21	10-20	---	6.1-7.3	0	0	0	0
	21-29	5.0-15	---	6.1-7.3	0	0	0	0
	29-53	10-30	---	5.6-7.3	0	0	0	0
	53-62	4.0-15	---	6.1-7.3	0	0	0	0
Valto-----	0-2	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	2-4	3.0-15	---	6.1-7.3	0	0	0	0
	4-14	2.0-15	---	6.1-7.3	0	0	0	0
	14-18	---	---	---	---	---	---	---
619: Nordicol-----	0-2	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	2-17	10-20	---	6.1-7.3	0	0	0	0
	17-31	5.0-15	---	6.1-7.3	0	0	0	0
	31-62	5.0-20	---	5.6-7.3	0	0	0	0

Table 25.--Chemical properties of the soils--Continued

Map symbol and soil name	Depth	Cation exchange capacity	Effective cation exchange capacity	Soil reaction	Calcium carbon- ate	Gypsum	Salinity	Sodium adsorp- tion ratio
	In.	meq/100 g	meq/100 g	pH	Pct.	Pct.	mmhos/cm	
620: Caviness-----	0-3	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	3-13	10-25	---	5.1-6.0	0	0	0	0
	13-21	10-20	---	4.5-6.0	0	0	0	0
	21-32	10-20	---	4.5-6.0	0	0	0	0
	32-51	15-30	---	4.5-5.5	0	0	0	0
	51-58	15-30	---	4.5-5.5	0	0	0	0
	58-62	---	---	---	---	---	---	---
621: Granturk-----	0-1	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	1-3	---	5.0-15	4.5-5.5	0	0	0	0
	3-8	---	5.0-15	4.5-5.5	0	0	0	0
	8-17	---	2.0-20	4.5-5.5	0	0	0	0
	17-19	---	2.0-10	4.5-5.5	0	0	0	0
	19-23	---	---	---	---	---	---	---
622: Granturk-----	0-1	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	1-3	---	5.0-15	4.5-5.5	0	0	0	0
	3-8	---	5.0-15	4.5-5.5	0	0	0	0
	8-17	---	2.0-20	4.5-5.5	0	0	0	0
	17-19	---	2.0-10	4.5-5.5	0	0	0	0
	19-23	---	---	---	---	---	---	---
Rock outcrop-----	0-60	---	---	---	---	---	---	---
623: Chris-----	0-1	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	1-13	10-20	---	6.1-7.3	0	0	0	0
	13-23	10-30	---	6.1-7.3	0	0	0	0
	23-31	10-30	---	5.6-6.5	0	0	0	0
	31-42	15-30	---	5.6-6.5	0	0	0	0
	42-61	10-30	---	5.6-6.5	0	0	0	0
Nordicol-----	0-2	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	2-21	10-20	---	6.1-7.3	0	0	0	0
	21-29	5.0-15	---	6.1-7.3	0	0	0	0
	29-53	10-30	---	5.6-7.3	0	0	0	0
	53-62	4.0-15	---	6.1-7.3	0	0	0	0

Table 25.--Chemical properties of the soils--Continued

Map symbol and soil name	Depth	Cation exchange capacity	Effective cation exchange capacity	Soil reaction	Calcium carbon- ate	Gypsum	Salinity	Sodium adsorp- tion ratio
	In.	meq/100 g	meq/100 g	pH	Pct.	Pct.	mmhos/cm	
699:								
Haplocryolls-----	0-2	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	2-10	10-25	---	6.1-7.3	0	0	0	0
	10-19	10-25	---	6.1-7.3	0	0	0	0
	19-29	5.0-30	---	6.6-7.8	0	0	0	0
	29-62	5.0-30	---	6.6-7.8	0	0	0	0
Rubble land-----	0-60	---	---	---	0	0	0	0
700:								
Bradfield-----	0-7	20-40	---	6.6-7.8	0	0	0	0
	7-15	30-65	---	6.6-7.8	0	0	0	0
	15-28	30-65	---	6.6-7.8	0	0	0	0
	28-36	25-60	---	6.6-7.8	0	0	0	0
	36-60	25-50	---	6.6-8.4	0-10	0-5	0	0
703:								
Narraguinnep-----	0-6	20-40	---	6.6-7.8	0	0	0	0
	6-17	25-45	---	6.6-7.8	0	0	0	0
	17-23	25-45	---	6.6-7.8	0-5	0	0	0
	23-30	15-35	---	7.9-8.4	5-15	0	0.0-2.0	0
	30-60	15-35	---	7.9-8.4	5-15	0	0.0-2.0	0
704:								
Gladlow-----	0-5	20-35	---	7.4-8.4	1-5	0	0	0
	5-14	20-40	---	7.9-9.0	1-5	0	0.0-2.0	0
	14-24	20-40	---	7.9-9.0	1-15	0	0.0-2.0	0
	24-31	20-35	---	7.9-9.0	5-15	1-5	0.0-4.0	0
	31-60	20-35	---	7.9-9.0	5-10	0-2	0.0-4.0	0
Rock outcrop-----	0-60	---	---	---	---	---	---	---
Ruko-----	0-2	20-35	---	7.9-8.4	1-5	0	0	0
	2-11	20-40	---	7.9-8.4	1-5	0	0	0
	11-21	---	---	---	---	---	---	---
705:								
Helmet-----	0-2	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	2-4	20-45	---	5.1-6.5	0	0	0	0
	4-13	20-40	---	5.1-6.5	0	0	0	0
	13-21	25-45	---	5.6-6.5	0	0	0	0
	21-28	25-45	---	5.6-6.5	0	0	0	0
	28-46	15-40	---	5.6-6.5	0	0	0	0
	46-62	15-35	---	5.6-6.5	0	0	0	0

Table 25.--Chemical properties of the soils--Continued

Map symbol and soil name	Depth	Cation exchange capacity	Effective cation exchange capacity	Soil reaction	Calcium carbon- ate	Gypsum	Salinity	Sodium adsorp- tion ratio
	In.	meq/100 g	meq/100 g	pH	Pct.	Pct.	mmhos/cm	
706: Narraguinnep-----	0-6	20-40	---	6.6-7.8	0	0	0	0
	6-17	25-45	---	6.6-7.8	0	0	0	0
	17-23	25-45	---	6.6-7.8	0-5	0	0	0
	23-30	15-35	---	7.9-8.4	5-15	0	0.0-2.0	0
	30-60	15-35	---	7.9-8.4	5-15	0	0.0-2.0	0
707: Teedown-----	0-12	15-30	---	6.1-7.3	0	0	0	0
	12-20	15-30	---	6.1-7.3	0	0	0	0
	20-28	20-40	---	5.6-6.5	0	0	0	0
	28-38	20-40	---	5.6-6.5	0	0	0	0
	38-60	20-35	---	5.6-7.3	0	0	0	0
Nordicol-----	0-3	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	3-18	10-20	---	6.1-7.3	0	0	0	0
	18-32	5.0-15	---	5.6-7.3	0	0	0	0
	32-63	5.0-20	---	5.6-7.3	0	0	0	0
708: Helmet-----	0-2	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	2-4	20-45	---	5.1-6.5	0	0	0	0
	4-13	20-40	---	5.1-6.5	0	0	0	0
	13-21	25-45	---	5.6-6.5	0	0	0	0
	21-28	25-45	---	5.6-6.5	0	0	0	0
	28-46	15-40	---	5.6-6.5	0	0	0	0
	46-62	15-35	---	5.6-6.5	0	0	0	0
709: Teedown-----	0-12	15-30	---	6.1-7.3	0	0	0	0
	12-20	15-30	---	6.1-7.3	0	0	0	0
	20-28	20-40	---	5.6-6.5	0	0	0	0
	28-38	20-40	---	5.6-6.5	0	0	0	0
	38-60	20-35	---	5.6-7.3	0	0	0	0
710: Sili-----	0-3	15-30	---	6.6-7.8	0-5	0	0	0
	3-15	20-40	---	7.4-8.4	0-5	0	0	0
	15-25	20-40	---	7.9-9.0	2-10	0	0.0-2.0	0
	25-50	20-40	---	7.9-9.0	2-10	0	0.0-2.0	0
	50-60	20-40	---	7.9-9.0	2-10	0	0.0-2.0	0
Zigzag-----	0-4	20-40	---	7.4-8.4	1-5	0	0	0
	4-12	20-30	---	7.4-8.4	1-10	0	0.0-2.0	0
	12-22	---	---	---	---	---	---	---

Table 25.--Chemical properties of the soils--Continued

Map symbol and soil name	Depth	Cation exchange capacity	Effective cation exchange capacity	Soil reaction	Calcium carbon- ate	Gypsum	Salinity	Sodium adsorp- tion ratio
	In.	meq/100 g	meq/100 g	pH	Pct.	Pct.	mmhos/cm	
711: Sili-----	0-3	15-30	---	6.6-7.8	0-5	0	0	0
	3-15	20-40	---	7.4-8.4	0-5	0	0	0
	15-25	20-40	---	7.9-9.0	2-10	0	0.0-2.0	0
	25-50	20-40	---	7.9-9.0	2-10	0	0.0-2.0	0
	50-60	20-40	---	7.9-9.0	2-10	0	0.0-2.0	0
714: Helmet-----	0-2	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	2-4	15-30	---	5.1-6.5	0	0	0	0
	4-13	20-40	---	5.1-6.5	0	0	0	0
	13-21	25-45	---	5.6-6.5	0	0	0	0
	21-28	25-45	---	5.6-6.5	0	0	0	0
	28-46	15-40	---	5.6-6.5	0	0	0	0
	46-62	15-35	---	5.6-6.5	0	0	0	0
718: Narraguinnep-----	0-6	20-40	---	6.6-7.8	0	0	0	0
	6-17	25-45	---	6.6-7.8	0	0	0	0
	17-23	25-45	---	6.6-7.8	0-5	0	0	0
	23-30	15-35	---	7.9-8.4	5-15	0	0.0-2.0	0
	30-60	15-35	---	7.9-8.4	5-15	0	0.0-2.0	0
Gladlow-----	0-5	20-35	---	7.4-8.4	1-5	0	0	0
	5-14	20-40	---	7.9-9.0	1-15	0	0.0-2.0	0
	14-24	20-40	---	7.9-9.0	1-15	0	0.0-2.0	0
	24-31	20-35	---	7.9-9.0	5-15	1-5	0.0-4.0	0
	31-60	20-35	---	7.9-9.0	5-10	0-2	0.0-4.0	0
720: Zigzag-----	0-4	20-40	---	7.4-8.4	1-5	0	0	0
	4-12	20-30	---	7.4-8.4	1-10	0	0.0-2.0	0
	12-22	---	---	---	---	---	---	---
Rock outcrop-----	0-60	---	---	---	---	---	---	---
723: Zigzag-----	0-4	20-40	---	7.4-8.4	1-5	0	0	0
	4-12	20-30	---	7.4-8.4	1-10	0	0.0-2.0	0
	12-22	---	---	---	---	---	---	---
Rock outcrop-----	0-60	---	---	---	---	---	---	---

Table 25.--Chemical properties of the soils--Continued

Map symbol and soil name	Depth	Cation exchange capacity	Effective cation exchange capacity	Soil reaction	Calcium carbon- ate	Gypsum	Salinity	Sodium adsorp- tion ratio
	In.	meq/100 g	meq/100 g	pH	Pct.	Pct.	mmhos/cm	
725: Shawa-----	0-7	10-20	---	6.6-7.3	0	0	0	0
	7-19	10-20	---	6.6-7.3	0	0	0	0
	19-38	10-25	---	6.6-7.3	0	0	0	0
	38-60	10-25	---	6.6-7.3	0	0	0	0
727: Teedown-----	0-12	15-30	---	6.1-7.3	0	0	0	0
	12-20	15-30	---	6.1-7.3	0	0	0	0
	20-28	20-40	---	5.6-6.5	0	0	0	0
	28-38	20-40	---	5.6-6.5	0	0	0	0
	38-60	20-35	---	5.6-7.3	0	0	0	0
Nordicol-----	0-3	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	3-18	10-20	---	6.1-7.3	0	0	0	0
	18-32	5.0-15	---	5.6-7.3	0	0	0	0
	32-63	5.0-20	---	5.6-7.3	0	0	0	0
730: Baird Hollow-----	0-2	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	2-9	20-30	---	5.6-6.5	0	0	0	0
	9-20	20-30	---	5.6-6.5	0	0	0	0
	20-29	15-35	---	5.6-6.5	0	0	0	0
	29-62	20-40	---	5.1-6.5	0	0	0	0
Nordicol-----	0-1	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	1-20	10-20	---	6.1-7.3	0	0	0	0
	20-28	5.0-15	---	6.1-7.3	0	0	0	0
	28-52	10-30	---	5.6-7.3	0	0	0	0
	52-61	4.0-15	---	6.1-7.3	0	0	0	0
Ryman-----	0-13	15-35	---	6.6-7.3	0	0	0	0
	13-19	15-35	---	6.6-7.3	0	0	0	0
	19-36	15-30	---	5.1-6.5	0	0	0	0
	36-60	15-30	---	5.1-6.0	0	0	0	0
731: Ryman-----	0-13	15-35	---	6.6-7.3	0	0	0	0
	13-19	15-35	---	6.6-7.3	0	0	0	0
	19-36	15-30	---	5.1-6.5	0	0	0	0
	36-60	15-30	---	5.1-6.0	0	0	0	0

Table 25.--Chemical properties of the soils--Continued

Map symbol and soil name	Depth	Cation exchange capacity	Effective cation exchange capacity	Soil reaction	Calcium carbon- ate	Gypsum	Salinity	Sodium adsorp- tion ratio
	In.	meq/100 g	meq/100 g	pH	Pct.	Pct.	mmhos/cm	
731: Adel-----	0-14	15-30	---	6.1-7.3	0	0	0	0
	14-24	10-25	---	6.1-7.3	0	0	0	0
	24-36	10-30	---	6.1-7.3	0	0	0	0
	36-60	10-25	---	6.1-7.3	0	0	0	0
732: Adel-----	0-14	15-30	---	6.1-7.3	0	0	0	0
	14-24	10-25	---	6.1-7.3	0	0	0	0
	24-36	10-30	---	6.1-7.3	0	0	0	0
	36-60	10-25	---	6.1-7.3	0	0	0	0
Quazar-----	0-12	10-25	---	6.1-7.3	0	0	0	0
	12-26	15-30	---	6.1-7.3	0	0	0	0
	26-60	10-20	---	6.1-7.3	0	0	0	0
733: Adel-----	0-14	15-30	---	6.1-7.3	0	0	0	0
	14-24	10-25	---	6.1-7.3	0	0	0	0
	24-36	10-30	---	6.1-7.3	0	0	0	0
	36-60	10-25	---	6.1-7.3	0	0	0	0
Bucklon-----	0-1	10-30	---	6.1-7.3	0	0	0	0
	1-12	10-30	---	6.1-7.3	0	0	0	0
	12-22	---	---	---	---	---	---	---
734: Ryman-----	0-13	15-35	---	6.6-7.3	0	0	0	0
	13-19	15-35	---	6.6-7.3	0	0	0	0
	19-36	15-30	---	5.1-6.0	0	0	0	0
	36-60	15-30	---	5.1-6.0	0	0	0	0
Clayburn-----	0-5	10-25	---	6.1-7.3	0	0	0	0
	5-13	10-25	---	6.1-7.3	0	0	0	0
	13-18	10-25	---	6.1-7.3	0	0	0	0
	18-36	10-25	---	6.1-7.3	0	0	0	0
	36-48	10-25	---	6.1-7.3	0	0	0	0
	48-60	10-25	---	6.1-7.3	0	0	0	0
740: Cowtown-----	0-3	10-30	---	6.1-7.3	0	0	0	0
	3-5	5.0-20	---	6.1-7.3	0	0	0	0
	5-16	5.0-20	---	5.6-7.3	0	0	0	0
	16-33	20-40	---	5.6-7.3	0	0	0	0
	33-60	20-40	---	5.6-7.3	0	0	0	0

Table 25.--Chemical properties of the soils--Continued

Map symbol and soil name	Depth	Cation exchange capacity	Effective cation exchange capacity	Soil reaction	Calcium carbon- ate	Gypsum	Salinity	Sodium adsorp- tion ratio
	In.	meq/100 g	meq/100 g	pH	Pct.	Pct.	mmhos/cm	
740: Scout-----	0-1	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	1-2	5.0-15	---	5.6-6.5	0	0	0	0
	2-9	5.0-15	---	5.6-6.5	0	0	0	0
	9-17	5.0-15	---	5.6-6.5	0	0	0	0
	17-61	3.0-10	---	5.6-6.5	0	0	0	0
741: Cowtown-----	0-3	10-30	---	6.1-7.3	0	0	0	0
	3-5	5.0-20	---	6.1-7.3	0	0	0	0
	5-16	5.0-20	---	5.6-7.3	0	0	0	0
	16-33	20-40	---	5.6-7.3	0	0	0	0
	33-60	20-40	---	5.6-7.3	0	0	0	0
Scout-----	0-1	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	1-2	5.0-15	---	5.6-6.5	0	0	0	0
	2-9	5.0-15	---	5.6-6.5	0	0	0	0
	9-17	5.0-15	---	5.6-6.5	0	0	0	0
	17-61	3.0-10	---	5.6-6.5	0	0	0	0
750: Archuleta-----	0-3	10-25	---	6.1-7.8	0	0	0	0
	3-16	10-20	---	6.1-7.8	0	0	0	0
	16-26	---	---	---	---	---	---	---
Sheek-----	0-1	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	1-6	10-20	---	6.1-7.8	0	0	0	0
	6-8	10-20	---	6.1-7.8	0	0	0	0
	8-24	15-25	---	6.1-7.8	0	0	0	0
	24-43	15-25	---	6.1-7.8	0	0	0	0
	43-61	10-25	---	6.1-7.8	0-10	0	0	0
801: Fughes-----	0-7	10-25	---	6.1-6.5	0	0	0	0
	7-26	10-30	---	6.1-7.3	0	0	0	0
	26-44	15-35	---	6.1-7.3	0	0	0	0
	44-60	25-50	---	6.1-7.3	0	0	0	0
Sheek-----	0-2	15-25	---	6.6-7.8	0	0	0	0
	2-7	10-25	---	6.6-7.8	0	0	0	0
	7-20	10-25	---	6.6-7.8	0	0	0	0
	20-29	5.0-15	---	6.6-7.8	0	0	0	0
	29-46	10-25	---	6.6-7.8	0	0	0	0
	46-60	5.0-15	---	6.6-7.8	0	0	0	0

Table 25.--Chemical properties of the soils--Continued

Map symbol and soil name	Depth	Cation exchange capacity	Effective cation exchange capacity	Soil reaction	Calcium carbon- ate	Gypsum	Salinity	Sodium adsorp- tion ratio
	In.	meq/100 g	meq/100 g	pH	Pct.	Pct.	mmhos/cm	
802:								
Argiustolls-----	0-1	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	1-4	10-25	---	6.1-7.4	0	0	0	0
	4-7	10-30	---	6.1-7.4	0	0	0	0
	7-13	10-30	---	6.1-7.4	0	0	0	0
	13-20	10-25	---	6.1-7.8	0	0	0	0
	20-37	15-50	---	6.1-7.8	0	0	0	0
	37-50	15-50	---	6.1-7.8	0	0	0	0
	50-61	15-35	---	6.1-7.8	0	0	0	0
Haplustalfs-----	0-2	5.0-20	---	6.1-7.8	0	0	0	0
	2-5	5.0-20	---	6.1-7.8	0	0	0	0
	5-10	10-25	---	6.1-7.8	0	0	0	0
	10-24	10-30	---	6.1-7.8	0	0	0	0
	24-41	10-30	---	6.1-7.8	0	0	0	0
	41-55	10-35	---	6.1-7.8	0	0	0	0
	55-60	10-35	---	6.1-7.8	0	0	0	0
Rock outcrop-----	0-60	---	---	---	---	---	---	---
804:								
Wauquie-----	0-3	5.0-20	---	6.6-7.8	0-2	0	0	0
	3-9	10-25	---	7.4-7.8	0-2	0	0	0
	9-14	10-25	---	7.4-8.4	1-5	0	0	0
	14-23	10-25	---	7.8-8.4	1-10	0	0	0
	23-32	10-25	---	7.8-8.4	1-10	0	0	0
	32-60	10-25	---	7.8-8.4	1-10	0	0	0
Dolcan-----	0-4	10-25	---	7.4-8.4	1-2	0	0	0
	4-9	10-20	---	7.4-8.4	1-5	0	0	0
	9-16	10-20	---	7.4-8.4	1-5	0	0	0
	16-26	---	---	---	---	---	---	---
Rock outcrop-----	0-60	---	---	---	---	---	---	---
805:								
Shawa-----	0-7	10-20	---	6.6-7.3	0	0	0	0
	7-19	10-20	---	6.6-7.3	0	0	0	0
	19-38	10-25	---	6.6-7.3	0	0	0	0
	38-60	10-25	---	6.6-7.3	0	0	0	0

Table 25.--Chemical properties of the soils--Continued

Map symbol and soil name	Depth	Cation exchange capacity	Effective cation exchange capacity	Soil reaction	Calcium carbon- ate	Gypsum	Salinity	Sodium adsorp- tion ratio
	In.	meq/100 g	meq/100 g	pH	Pct.	Pct.	mmhos/cm	
805: Fughes-----	0-1	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	1-8	10-25	---	6.1-7.3	0	0	0	0
	8-27	20-35	---	6.1-7.3	0	0	0	0
	27-45	25-45	---	6.1-7.3	0	0	0	0
	45-61	25-45	---	6.1-7.3	0-5	0	0	0
806: Shawa-----	0-7	10-20	---	6.6-7.3	0	0	0	0
	7-19	10-20	---	6.6-7.3	0	0	0	0
	19-38	10-25	---	6.6-7.3	0	0	0	0
	38-60	10-25	---	6.6-7.3	0	0	0	0
Fughes-----	0-1	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	1-8	10-25	---	6.1-7.3	0	0	0	0
	8-27	20-35	---	6.1-7.3	0	0	0	0
	27-45	25-45	---	6.1-7.3	0	0	0	0
	45-61	25-45	---	6.1-7.3	0-5	0	0	0
809: Argiustolls-----	0-1	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	1-4	10-25	---	6.1-7.8	0	0	0	0
	4-7	10-30	---	6.1-7.8	0	0	0	0
	7-13	10-30	---	6.1-7.8	0	0	0	0
	13-20	10-25	---	6.1-7.8	0	0	0	0
	20-37	15-50	---	6.1-7.8	0	0	0	0
	37-50	15-50	---	6.1-7.8	0	0	0	0
	50-61	15-35	---	6.1-7.8	0	0	0	0
Haplustalfs-----	0-2	5.0-20	---	6.1-7.8	0	0	0	0
	2-5	5.0-20	---	6.1-7.8	0	0	0	0
	5-10	10-25	---	6.1-7.8	0	0	0	0
	10-24	10-30	---	6.1-7.8	0	0	0	0
	24-41	10-30	---	6.1-7.8	0	0	0	0
	41-55	10-35	---	6.1-7.8	0	0	0	0
	55-60	10-35	---	6.1-7.8	0	0	0	0
813: Fughes-----	0-7	25-35	---	6.1-7.3	0	0	0	0
	7-26	20-35	---	6.1-7.3	0	0	0	0
	26-44	25-45	---	6.1-7.3	0	0	0	0
	44-60	25-45	---	6.1-7.3	0	0	0	0

Table 25.--Chemical properties of the soils--Continued

Map symbol and soil name	Depth	Cation exchange capacity	Effective cation exchange capacity	Soil reaction	Calcium carbon- ate	Gypsum	Salinity	Sodium adsorp- tion ratio
	In.	meq/100 g	meq/100 g	pH	Pct.	Pct.	mmhos/cm	
814: Leaps-----	0-3	20-40	---	6.1-7.3	0	0	0	0
	3-7	20-40	---	6.1-7.3	0	0	0	0
	7-14	20-40	---	6.1-7.3	0	0	0	0
	14-22	20-45	---	6.1-7.3	0	0	0	0
	22-60	20-45	---	6.1-7.3	0	0	0	0
Hofly-----	0-7	15-30	---	6.6-7.3	0	0	0	0
	7-30	25-40	---	6.6-7.3	0	0	0	0
	30-60	25-40	---	6.6-7.3	0	0	0	0
815: Behanco-----	0-2	10-25	---	5.6-6.5	0	0	0	0
	2-17	10-25	---	5.6-6.5	0	0	0	0
	17-25	5.0-20	---	5.1-6.0	0	0	0	0
	25-33	5.0-20	---	5.1-6.0	0	0	0	0
	33-45	0.0-5.0	---	5.1-6.0	0	0	0	0
	45-47	15-35	---	5.1-6.0	0	0	0	0
	47-59	---	---	---	---	---	---	---
	59-63	---	---	---	---	---	---	---
Powderhorn family----	0-1	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	1-4	15-30	---	4.5-6.5	0	0	0	0
	4-12	15-30	---	4.5-6.5	0	0	0	0
	12-24	10-25	---	4.5-6.0	0	0	0	0
	24-32	25-50	---	4.5-6.0	0	0	0	0
	32-41	25-50	---	3.5-5.5	0	0	0	0
	41-60	25-50	---	3.5-5.5	0	0	0	0
	60-64	---	---	---	---	---	---	---
816: Storm-----	0-2	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	2-6	10-20	---	5.1-6.5	0	0	0	0
	6-13	10-20	---	5.1-6.5	0	0	0	0
	13-19	10-20	---	5.1-6.5	0	0	0	0
	19-31	10-20	---	5.1-6.5	0	0	0	0
	31-40	10-20	---	5.1-6.5	0	0	0	0
	40-48	10-15	---	5.1-6.5	0	0	0	0
	48-56	10-20	---	5.1-6.5	0	0	0	0
	56-62	10-20	---	5.1-6.5	0	0	0	0

Table 25.--Chemical properties of the soils--Continued

Map symbol and soil name	Depth	Cation exchange capacity	Effective cation exchange capacity	Soil reaction	Calcium carbon- ate	Gypsum	Salinity	Sodium adsorp- tion ratio
	In.	meq/100 g	meq/100 g	pH	Pct.	Pct.	mmhos/cm	
826:								
Ute-----	0-2	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	2-7	15-30	---	6.1-7.3	0	0	0	0
	7-13	25-45	---	6.1-7.8	0	0	0	0
	13-28	25-45	---	6.1-7.8	0	0	0	0
	28-45	25-45	---	6.1-7.8	0	0	0	0
	45-62	10-30	---	6.6-7.8	0	0	0	0
Frisco-----	0-2	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	2-5	5.0-20	---	6.1-7.3	0	0	0	0
	5-11	5.0-20	---	6.1-7.3	0	0	0	0
	11-19	5.0-20	---	5.6-7.3	0	0	0	0
	19-48	5.0-20	---	5.6-7.3	0	0	0	0
	48-62	5.0-15	---	5.6-7.3	0	0	0	0
830:								
Dressel-----	0-2	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	2-8	10-25	---	6.1-7.3	0	0	0	0
	8-19	10-25	---	6.1-7.3	0	0	0	0
	19-23	10-20	---	6.1-7.3	0	0	0	0
	23-30	10-20	---	6.1-7.3	0	0	0	0
	30-36	10-20	---	6.1-7.3	0	0	0	0
	36-45	10-20	---	6.1-7.3	0	0	0	0
	45-53	10-20	---	6.1-7.3	0	0	0	0
	53-62	10-20	---	6.6-7.3	0	0	0	0
Jersey-----	0-1	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	1-8	15-25	---	6.1-7.3	0	0	0	0
	8-13	20-40	---	6.1-7.3	0	0	0	0
	13-18	20-40	---	6.1-7.3	0	0	0	0
	18-26	20-40	---	6.1-7.3	0	0	0	0
	26-37	20-40	---	6.1-7.3	0	0	0	0
	37-47	20-35	---	6.6-7.3	0	0	0	0
	47-61	20-35	---	6.6-7.3	0	0	0	0
832:								
Storm-----	0-2	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	2-6	10-20	---	5.1-6.5	0	0	0	0
	6-13	10-20	---	5.1-6.5	0	0	0	0
	13-19	10-20	---	5.1-6.5	0	0	0	0
	19-31	10-20	---	5.1-6.5	0	0	0	0
	31-40	10-20	---	5.1-6.5	0	0	0	0
	40-48	10-15	---	5.1-6.5	0	0	0	0
	48-56	10-20	---	5.1-6.5	0	0	0	0
	56-62	10-20	---	5.1-6.5	0	0	0	0

Table 25.--Chemical properties of the soils--Continued

Map symbol and soil name	Depth	Cation exchange capacity	Effective cation exchange capacity	Soil reaction	Calcium carbon- ate	Gypsum	Salinity	Sodium adsorp- tion ratio
	In.	meq/100 g	meq/100 g	pH	Pct.	Pct.	mmhos/cm	
834:								
Haycamp-----	0-1	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	1-5	20-35	---	5.6-6.5	0	0	0	0
	5-13	20-40	---	5.6-7.3	0	0	0	0
	13-21	20-40	---	5.6-7.3	0	0	0	0
	21-30	20-40	---	5.6-7.3	0	0	0	0
	30-38	20-40	---	5.6-7.3	0	0	0	0
	38-56	20-50	---	6.1-7.3	0	0	0	0
	56-61	20-40	---	6.1-7.3	0	0	0	0
Jersey-----	0-1	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	1-8	15-25	---	6.1-7.3	0	0	0	0
	8-13	20-40	---	6.1-7.3	0	0	0	0
	13-18	20-40	---	6.1-7.3	0	0	0	0
	18-26	20-40	---	6.1-7.3	0	0	0	0
	26-37	20-40	---	6.1-7.3	0	0	0	0
	37-47	20-35	---	6.6-7.3	0	0	0	0
	47-61	20-35	---	6.6-7.3	0	0	0	0
835:								
Brumley-----	0-2	10-20	---	6.6-7.8	0	0	0	0
	2-17	10-25	---	7.4-7.8	0	0	0	0
	17-25	10-25	---	7.4-8.4	1-5	0	0	0
	25-40	4.0-20	---	7.9-8.4	15-50	0	0	0
	40-60	4.0-20	---	7.9-8.4	15-50	0	0	0
860:								
Granath-----	0-2	10-25	---	6.6-7.8	0	0	0	0
	2-10	10-25	---	6.6-7.8	0	0	0	0
	10-15	15-35	---	6.6-7.8	0	0	0	0
	15-20	15-35	---	6.6-7.8	0	0	0	0
	20-28	15-30	---	6.6-7.8	0	0	0	0
	28-40	15-35	---	6.6-7.8	0-5	0	0	0
	40-49	15-35	---	7.9-8.4	1-15	0	0.0-2.0	0
	49-60	15-30	---	7.9-8.4	1-25	0	0.0-2.0	0
Nortez-----	0-3	10-25	---	6.6-7.8	0	0	0	0
	3-10	20-30	---	6.6-7.8	0	0	0	0
	10-23	30-50	---	6.6-8.4	0-1	0	0	0
	23-28	30-50	---	6.6-8.4	0-1	0	0	0
	28-32	30-50	---	6.6-8.4	0-1	0	0	0
	32-42	---	---	---	---	---	---	---

Table 25.--Chemical properties of the soils--Continued

Map symbol and soil name	Depth	Cation exchange capacity	Effective cation exchange capacity	Soil reaction	Calcium carbon- ate	Gypsum	Salinity	Sodium adsorp- tion ratio
	In.	meq/100 g	meq/100 g	pH	Pct.	Pct.	mmhos/cm	
861: Morapos-----	0-3	10-20	---	6.6-7.3	0	0	0	0
	3-8	20-40	---	6.6-7.3	0	0	0	0
	8-12	25-40	---	7.4-7.8	0-3	0	0	0
	12-22	25-40	---	7.4-7.8	0-10	0	0	0
	22-37	15-30	---	7.8-8.4	2-14	0	0	0
	37-60	15-30	---	7.8-8.4	2-14	0	0	0
862: Granath-----	0-2	10-25	---	6.6-7.8	0	0	0	0
	2-10	10-25	---	6.6-7.8	0	0	0	0
	10-15	15-35	---	6.6-7.8	0	0	0	0
	15-20	15-35	---	6.6-7.8	0	0	0	0
	20-28	15-30	---	6.6-7.8	0	0	0	0
	28-40	15-35	---	6.6-7.8	0-5	0	0	0
	40-60	15-30	---	7.9-8.4	1-25	0	0.0-2.0	0
Dolores-----	0-1	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	1-3	15-30	---	6.6-7.3	0	0	0	0
	3-8	15-30	---	6.6-7.3	0	0	0	0
	8-10	15-35	---	6.6-7.8	0	0	0	0
	10-15	15-35	---	6.6-7.8	0	0	0	0
	15-24	15-35	---	6.6-7.8	0	0	0	0
	24-45	15-35	---	6.6-7.8	0	0	0	0
	45-49	15-35	---	6.6-7.8	0	0	0	0
	49-61	15-35	---	7.4-8.4	5-25	0	0.0-2.0	0
Fivepine-----	0-3	10-20	---	6.1-7.8	0	0	0	0
	3-9	10-25	---	6.1-7.8	0	0	0	0
	9-12	10-25	---	6.1-7.8	0	0	0	0
	12-15	15-30	---	6.1-7.8	0	0	0	0
	15-19	---	---	---	---	---	---	---
863: Granath-----	0-2	10-25	---	6.6-7.8	0	0	0	0
	2-10	10-25	---	6.6-7.8	0	0	0	0
	10-15	15-35	---	6.6-7.8	0	0	0	0
	15-20	15-35	---	6.6-7.8	0	0	0	0
	20-28	15-30	---	6.6-7.8	0	0	0	0
	28-40	15-35	---	6.6-7.8	0-5	0	0	0
	40-60	15-30	---	7.9-8.4	1-25	0	0.0-2.0	0

Table 25.--Chemical properties of the soils--Continued

Map symbol and soil name	Depth	Cation exchange capacity	Effective cation exchange capacity	Soil reaction	Calcium carbon- ate	Gypsum	Salinity	Sodium adsorp- tion ratio
	In.	meq/100 g	meq/100 g	pH	Pct.	Pct.	mmhos/cm	
863: Ormiston-----	0-7	15-30	---	6.6-7.3	0	0	0	0
	7-24	20-50	---	6.6-7.8	0	0	0	0
	24-32	20-50	---	6.6-7.8	0-5	0	0	0
	32-44	15-35	---	7.4-8.4	15-40	0	0.0-2.0	0
	44-54	---	---	---	---	---	---	---
Fivepine-----	0-3	10-20	---	6.1-7.8	0	0	0	0
	3-9	10-25	---	6.1-7.8	0	0	0	0
	9-12	10-25	---	6.1-7.8	0	0	0	0
	12-15	15-30	---	6.1-7.8	0	0	0	0
	15-25	---	---	---	---	---	---	---
890: Tamarron-----	0-3	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	3-9	10-20	---	5.6-7.3	0	0	0	0
	9-20	10-25	---	5.6-7.3	0	0	0	0
	20-30	10-25	---	5.6-7.3	0	0	0	0
	30-39	5.0-15	---	5.6-7.3	0	0	0	0
	39-49	---	---	---	---	---	---	---
Frisco-----	0-2	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	2-5	5.0-20	---	6.1-7.3	0	0	0	0
	5-11	5.0-20	---	6.1-7.3	0	0	0	0
	11-19	5.0-20	---	5.6-7.3	0	0	0	0
	19-48	5.0-20	---	5.6-7.3	0	0	0	0
	48-62	5.0-15	---	5.6-7.3	0	0	0	0
891: Tamarron-----	0-3	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	3-9	10-20	---	5.6-7.3	0	0	0	0
	9-20	10-25	---	5.6-7.3	0	0	0	0
	20-30	10-25	---	5.6-7.3	0	0	0	0
	30-39	5.0-15	---	5.6-7.3	0	0	0	0
	39-49	---	---	---	---	---	---	---
Frisco-----	0-2	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	2-5	5.0-20	---	6.1-7.3	0	0	0	0
	5-11	5.0-20	---	6.1-7.3	0	0	0	0
	11-19	5.0-20	---	5.6-7.3	0	0	0	0
	19-48	5.0-20	---	5.6-7.3	0	0	0	0
	48-62	5.0-15	---	5.6-7.3	0	0	0	0

Table 25.--Chemical properties of the soils--Continued

Map symbol and soil name	Depth	Cation exchange capacity	Effective cation exchange capacity	Soil reaction	Calcium carbon- ate	Gypsum	Salinity	Sodium adsorp- tion ratio
	In.	meq/100 g	meq/100 g	pH	Pct.	Pct.	mmhos/cm	
901: Granath-----	0-2	10-25	---	6.6-7.8	0	0	0	0
	2-10	10-25	---	6.6-7.8	0	0	0	0
	10-15	15-35	---	6.6-7.8	0	0	0	0
	15-20	15-35	---	6.6-7.8	0	0	0	0
	20-28	15-30	---	6.6-7.8	0	0	0	0
	28-40	15-35	---	6.6-7.8	0-5	0	0	0
	40-60	15-30	---	7.9-8.4	1-25	0	0.0-2.0	0
Zoltay-----	0-6	20-40	---	6.6-7.8	0	0	0	0
	6-14	20-40	---	6.6-7.8	0	0	0	0
	14-23	20-40	---	6.6-7.8	0-1	0	0	0
	23-29	20-40	---	6.6-7.8	0-1	0	0	0
	29-46	10-30	---	7.4-8.4	3-15	0	0.0-2.0	0
	46-60	10-30	---	7.4-8.4	3-15	0	0.0-2.0	0
Nortez-----	0-3	10-25	---	6.6-7.8	0	0	0	0
	3-10	20-30	---	6.6-7.8	0	0	0	0
	10-32	30-50	---	6.6-8.4	0-1	0	0	0
	32-42	---	---	---	---	---	---	---
903: Anvik-----	0-1	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	1-7	10-25	---	5.6-7.3	0	0	0	0
	7-11	10-25	---	5.6-7.3	0	0	0	0
	11-22	5.0-15	---	5.6-7.3	0	0	0	0
	22-31	10-25	---	6.1-7.3	0	0	0	0
	31-45	10-25	---	6.1-7.3	0	0	0	0
	45-61	10-25	---	6.1-7.3	0	0	0	0
904: Beje-----	0-6	5.0-15	---	6.6-7.3	0	0	0	0
	6-14	10-25	---	6.6-7.3	0	0	0	0
	14-18	---	---	---	---	---	---	---
905: Cryaquolls-----	0-7	10-30	---	5.6-7.3	0	0	0	0
	7-12	10-30	---	5.6-7.3	0	0	0	0
	12-60	5.0-25	---	4.5-7.3	0	0	0	0
906: Archuleta-----	0-3	5.0-20	---	6.1-7.8	0	0	0	0
	3-16	5.0-20	---	6.1-7.8	0	0	0	0
	16-26	---	---	---	---	---	---	---

Table 25.--Chemical properties of the soils--Continued

Map symbol and soil name	Depth	Cation exchange capacity	Effective cation exchange capacity	Soil reaction	Calcium carbon- ate	Gypsum	Salinity	Sodium adsorp- tion ratio
	In.	meq/100 g	meq/100 g	pH	Pct.	Pct.	mmhos/cm	
907: Archuleta-----	0-3	5.0-20	---	6.1-7.8	0	0	0	0
	3-16	5.0-20	---	6.1-7.8	0	0	0	0
	16-26	---	---	---	---	---	---	---
Sanchez-----	0-5	10-20	---	6.1-7.3	0	0	0.0-1.0	0-2
	5-11	10-25	---	6.1-7.3	0	0	0.0-1.0	0-2
	11-15	10-20	---	6.1-7.3	0	0	0.0-1.0	0-2
	15-19	---	---	---	---	---	---	---
908: Adel-----	0-14	15-30	---	6.1-7.3	0	0	0	0
	14-24	10-25	---	6.1-7.3	0	0	0	0
	24-36	10-30	---	6.1-7.3	0	0	0	0
	36-60	10-25	---	6.1-7.3	0	0	0	0
909: Adel-----	0-14	15-30	---	6.1-7.3	0	0	0	0
	14-24	10-25	---	6.1-7.3	0	0	0	0
	24-36	10-30	---	6.1-7.3	0	0	0	0
	36-60	10-25	---	6.1-7.3	0	0	0	0
917: Chris-----	0-1	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	1-13	10-20	---	6.1-7.3	0	0	0	0
	13-23	10-30	---	6.1-7.3	0	0	0	0
	23-31	10-30	---	5.6-6.5	0	0	0	0
	31-42	15-30	---	5.6-6.5	0	0	0	0
	42-61	10-30	---	5.6-6.5	0	0	0	0
919: Clayburn-----	0-6	10-25	---	6.1-7.3	0	0	0	0
	6-10	10-25	---	6.1-7.3	0	0	0	0
	10-16	10-25	---	6.1-7.3	0	0	0	0
	16-31	10-25	---	6.1-7.3	0	0	0	0
	31-60	10-25	---	6.1-7.3	0	0	0	0
920: Clayburn-----	0-18	10-25	---	6.1-7.3	0	0	0	0
	18-43	10-25	---	6.1-7.3	0	0	0	0
	43-60	5.0-15	---	6.1-7.3	0	0	0	0

Table 25.--Chemical properties of the soils--Continued

Map symbol and soil name	Depth	Cation exchange capacity	Effective cation exchange capacity	Soil reaction	Calcium carbon- ate	Gypsum	Salinity	Sodium adsorp- tion ratio
	In.	meq/100 g	meq/100 g	pH	Pct.	Pct.	mmhos/cm	
926:								
Ustolls-----	0-11	10-20	---	6.6-7.8	0	0	0	0
	11-18	10-20	---	6.6-7.8	0	0	0	0
	18-30	15-30	---	6.6-7.8	0	0	0	0
	30-42	15-30	---	6.6-7.8	0	0	0	0
	42-60	15-30	---	6.6-7.8	0	0	0	0
Rock outcrop-----	0-60	---	---	---	---	---	---	---
930:								
Fortlewis-----	0-1	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	1-4	5.0-15	---	6.1-7.3	0	0	0	0
	4-12	5.0-15	---	6.1-7.3	0	0	0	0
	12-17	15-25	---	6.1-7.3	0	0	0	0
	17-27	20-35	---	6.1-7.3	0	0	0	0
	27-39	20-35	---	6.1-7.3	0	0	0	0
	39-43	---	---	---	---	---	---	---
Rock outcrop-----	0-60	---	---	---	---	---	---	---
934:								
Ceek-----	0-1	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	1-6	20-35	---	6.6-7.3	0	0	0	0
	6-14	15-35	---	6.6-7.3	0	0	0	0
	14-23	20-40	---	6.6-7.3	0	0	0	0
	23-32	25-40	---	7.4-8.4	5-10	0	0.0-2.0	0
	32-61	25-40	---	7.4-8.4	5-10	0	0.0-2.0	0
937:								
Herm-----	0-6	15-25	---	6.1-7.3	0	0	0	0
	6-13	20-35	---	6.1-7.3	0	0	0	0
	13-17	20-40	---	6.1-7.8	0	0	0	0
	17-45	20-40	---	6.1-7.8	0	0	0	0
	45-60	20-30	---	6.6-8.4	0-5	0	0	0
939:								
Ohwiler-----	0-14	10-25	---	6.1-7.3	0	0	0	0
	14-45	10-25	---	6.1-7.3	0	0	0	0
	45-55	5.0-20	---	6.1-7.3	0	0	0	0
	55-60	5.0-20	---	6.1-7.3	0	0	0	0

Table 25.--Chemical properties of the soils--Continued

Map symbol and soil name	Depth	Cation exchange capacity	Effective cation exchange capacity	Soil reaction	Calcium carbon- ate	Gypsum	Salinity	Sodium adsorp- tion ratio
	In.	meq/100 g	meq/100 g	pH	Pct.	Pct.	mmhos/cm	
940: Horsethief-----	0-2	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	2-5	5.0-15	---	5.1-6.0	0	0	0	0
	5-24	5.0-15	---	5.1-6.0	0	0	0	0
	24-32	10-20	---	5.1-6.0	0	0	0	0
	32-49	10-20	---	5.1-6.0	0	0	0	0
	49-62	5.0-25	---	5.1-7.3	0	0	0	0
942: Fivepine-----	0-3	10-20	---	6.1-7.8	0	0	0	0
	3-9	10-25	---	6.1-7.8	0	0	0	0
	9-12	10-25	---	6.1-7.8	0	0	0	0
	12-15	15-30	---	6.1-7.8	0	0	0	0
	15-19	---	---	---	---	---	---	---
Pino-----	0-1	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	1-4	10-20	---	6.6-7.8	0	0	---	0
	4-12	10-20	---	6.6-7.8	0	0	---	0
	12-15	15-30	---	6.6-7.8	0	0	---	0
	15-21	15-30	---	6.6-7.8	0	0	---	0
	21-29	15-35	---	6.6-7.8	0	0	---	0
	29-34	15-35	---	6.6-7.8	0	0	---	0
	34-38	---	---	---	---	---	---	---
945: Nizhoni-----	0-4	5.0-15	---	7.4-8.4	1-3	0	0	0
	4-8	5.0-15	---	7.9-8.4	2-5	0	0	0
	8-12	---	---	---	---	---	---	---
Arabrab-----	0-3	5.0-15	---	7.4-7.8	0	0	0	0
	3-16	10-20	---	7.4-7.8	1-5	0	0	0
	16-20	---	---	---	---	---	---	---
Rock outcrop-----	0-60	---	---	---	---	---	---	---
950: Pescar-----	0-8	5.0-10	---	6.6-8.4	0-2	0	0	0
	8-20	5.0-15	---	6.6-8.4	1-5	0	0	0
	20-60	0.0-5.0	---	6.6-8.4	1-5	0	0.0-2.0	0

Table 25.--Chemical properties of the soils--Continued

Map symbol and soil name	Depth	Cation exchange capacity	Effective cation exchange capacity	Soil reaction	Calcium carbon- ate	Gypsum	Salinity	Sodium adsorp- tion ratio
	In.	meq/100 g	meq/100 g	pH	Pct.	Pct.	mmhos/cm	
951: Endoaquolls-----	0-4	5.0-15	---	6.6-7.8	0-1	0	0	0
	4-12	10-20	---	6.6-7.8	0-2	0	0	0
	12-14	10-20	---	6.6-7.8	0-2	0	0	0
	14-19	10-20	---	6.6-7.8	0-2	0	0	0
	19-28	10-20	---	6.6-7.8	0-2	0	0	0
	28-60	5.0-10	---	6.6-7.8	0-2	0	0	0
955: Umbarg-----	0-2	10-25	---	6.6-7.8	0-5	0	0	0
	2-12	20-30	---	6.6-7.8	0-5	0	0	0
	12-33	10-20	---	6.6-8.4	0-5	0	0	0
	33-42	10-20	---	6.6-8.4	0-5	0	0	0
	42-60	10-20	---	7.4-8.4	0-5	0	0	0
Winner-----	0-4	15-30	---	7.4-8.4	0	0	0	0
	4-14	15-30	---	7.4-8.4	0-2	0-1	2.0-8.0	0
	14-23	15-30	---	7.4-8.4	0-2	0-1	2.0-8.0	0
	23-31	15-30	---	7.4-8.4	0-2	0-1	2.0-8.0	0
	31-60	10-20	---	7.4-8.4	0-2	0-1	0.0-4.0	0
Tesajo-----	0-3	10-20	---	6.6-7.3	0	0	0	0
	3-36	10-20	---	6.6-7.3	0	0	0	0
	36-60	5.0-15	---	6.6-7.3	0	0	0	0
956: Ormiston-----	0-2	10-30	---	6.6-7.3	0	0	0	0
	2-7	15-30	---	6.6-7.3	0	0	0	0
	7-24	20-50	---	6.6-7.8	0	0	0	0
	24-32	20-50	---	6.6-7.8	0-5	0	0	0
	32-44	15-35	---	7.4-8.4	15-40	0	0.0-2.0	0
	44-48	---	---	---	---	---	---	---
Granath-----	0-2	10-25	---	6.6-7.8	0	0	0	0
	2-10	10-25	---	6.6-7.8	0	0	0	0
	10-15	15-35	---	6.6-7.8	0	0	0	0
	15-20	15-35	---	6.6-7.8	0	0	0	0
	20-28	15-30	---	6.6-7.8	0	0	0	0
	28-40	15-35	---	6.6-7.8	0-5	0	0	0
	40-60	15-30	---	7.9-8.4	1-25	0	0.0-2.0	0

Table 25.--Chemical properties of the soils--Continued

Map symbol and soil name	Depth	Cation exchange capacity	Effective cation exchange capacity	Soil reaction	Calcium carbon- ate	Gypsum	Salinity	Sodium adsorp- tion ratio
	In.	meq/100 g	meq/100 g	pH	Pct.	Pct.	mmhos/cm	
958:								
Sheek-----	0-1	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	1-5	10-20	---	6.6-7.3	0	0	0	0
	5-43	10-25	---	6.1-7.8	0	0	0	0
	43-61	10-25	---	6.1-7.8	0	0	0	0
Archuleta-----	0-1	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	1-6	5.0-20	---	6.1-7.8	0	0	0	0
	6-9	5.0-20	---	6.1-7.8	0	0	0	0
	9-18	10-25	---	6.1-7.8	0	0	0	0
	18-28	---	---	---	---	---	---	---
Rock outcrop-----	0-60	---	---	---	---	---	---	---
959:								
Granath-----	0-2	10-25	---	6.6-7.8	0	0	0	0
	2-10	10-25	---	6.6-7.8	0	0	0	0
	10-15	15-35	---	6.6-7.8	0	0	0	0
	15-20	15-35	---	6.6-7.8	0	0	0	0
	20-28	15-30	---	6.6-7.8	0	0	0	0
	28-40	15-35	---	6.6-7.8	0-5	0	0	0
	40-60	15-30	---	7.9-8.4	1-25	0	0.0-2.0	0
965:								
Narraguinnep-----	0-6	20-40	---	6.6-7.8	0	0	0	0
	6-17	25-45	---	6.6-7.8	0	0	0	0
	17-23	25-45	---	6.6-7.8	0-5	0	0	0
	23-30	15-35	---	7.9-8.4	5-15	0	0.0-2.0	0
	30-60	15-35	---	7.9-8.4	5-15	0	0.0-2.0	0
Dapoin-----	0-4	20-35	---	6.6-7.8	0	0	0	0
	4-13	20-35	---	6.6-7.8	0	0	0	0
	13-18	25-40	---	6.6-7.8	0-1	0	0	0
	18-29	20-40	---	7.9-8.4	2-10	0	0.0-2.0	0
	29-32	20-40	---	7.9-8.4	5-15	0	0.0-2.0	0
	32-38	20-40	---	7.9-8.4	5-15	0	0.0-2.0	0
	38-44	15-30	---	7.9-8.4	5-15	0	0.0-2.0	0
	44-60	15-30	---	7.9-8.4	5-15	0	0.0-2.0	0
966:								
Cryaquepts-----	0-8	---	5.0-15	4.5-5.5	0	0	0	0
	8-15	---	2.0-10	4.5-5.5	0	0	0	0
	15-28	---	2.0-10	4.5-5.5	0	0	0	0
	28-32	---	---	---	---	---	---	---

Table 25.--Chemical properties of the soils--Continued

Map symbol and soil name	Depth	Cation exchange capacity	Effective cation exchange capacity	Soil reaction	Calcium carbon- ate	Gypsum	Salinity	Sodium adsorp- tion ratio
	In.	meq/100 g	meq/100 g	pH	Pct.	Pct.	mmhos/cm	
967:								
Quazar-----	0-12	10-25	---	6.1-7.3	0	0	0	0
	12-26	15-30	---	6.1-7.3	0	0	0	0
	26-60	10-20	---	6.1-7.3	0	0	0	0
Cryaquolls-----	0-7	10-30	---	5.6-7.3	0	0	0	0
	7-12	10-30	---	5.6-7.3	0	0	0	0
	12-60	5.0-25	---	4.5-7.3	0	0	0	0
Crychemists-----	0-14	75-150	45-90	5.1-6.5	0	0	0	0
	14-26	75-150	45-90	5.1-6.5	0	0	0	0
	26-38	75-150	45-90	5.1-6.5	0	0	0	0
	38-45	5.0-20	---	5.1-6.0	0	0	0	0
	45-60	5.0-20	---	5.1-6.0	0	0	0	0
968:								
Nortez-----	0-3	10-25	---	6.6-7.8	0	0	0	0
	3-10	20-30	---	6.6-7.8	0	0	0	0
	10-32	30-50	---	6.6-8.4	0-1	0	0	0
	32-42	---	---	---	---	---	---	---
Granath-----	0-2	10-25	---	6.6-7.8	0	0	0	0
	2-10	10-25	---	6.6-7.8	0	0	0	0
	10-15	15-35	---	6.6-7.8	0	0	0	0
	15-20	15-35	---	6.6-7.8	0	0	0	0
	20-28	15-30	---	6.6-7.8	0	0	0	0
	28-40	15-35	---	6.6-7.8	0-5	0	0	0
	40-60	15-30	---	7.9-8.4	1-25	0	0.0-2.0	0
969:								
Nortez-----	0-3	10-25	---	6.6-7.8	0	0	0	0
	3-10	20-30	---	6.6-7.8	0	0	0	0
	10-32	30-50	---	6.6-8.4	0-1	0	0	0
	32-42	---	---	---	---	---	---	---
Fivepine-----	0-3	10-20	---	6.1-7.8	0	0	0	0
	3-9	10-25	---	6.1-7.8	0	0	0	0
	9-12	10-25	---	6.1-7.8	0	0	0	0
	12-15	15-30	---	6.1-7.8	0	0	0	0
	15-19	---	---	---	---	---	---	---

Table 25.--Chemical properties of the soils--Continued

Map symbol and soil name	Depth	Cation exchange capacity	Effective cation exchange capacity	Soil reaction	Calcium carbon- ate	Gypsum	Salinity	Sodium adsorp- tion ratio
	In.	meq/100 g	meq/100 g	pH	Pct.	Pct.	mmhos/cm	
972:								
Pagoda-----	0-1	50-90	30-60	5.1-6.5	0	0	0.0-2.0	0
	1-5	15-35	---	6.6-7.8	0	0	0	0
	5-16	15-35	---	6.6-7.8	0-1	0	0	0
	16-21	20-40	---	6.6-7.8	0-1	0	0	0
	21-32	15-35	---	7.9-8.4	1-10	0	0.0-2.0	0
	32-61	15-35	---	7.9-8.4	1-10	0	0.0-2.0	0
Coulterg-----	0-5	20-35	---	7.4-8.4	0-5	0	0	0
	5-10	20-35	---	7.4-8.4	0-5	0	0	0
	10-14	5.0-20	---	7.4-8.4	0-5	0	0.0-4.0	0
	14-31	5.0-20	---	7.4-8.4	5-15	1-5	0.0-4.0	0
	31-60	5.0-20	---	7.4-8.4	5-15	1-5	0.0-4.0	0
Wiggler-----	0-4	10-20	---	7.9-8.4	1-5	0	0.0-4.0	0
	4-10	5.0-20	---	7.9-8.4	2-15	0	0.0-4.0	0
	10-20	---	---	---	---	---	---	---
989:								
Ryman-----	0-19	10-25	---	6.6-7.3	0	0	0	0
	19-36	15-25	---	5.1-6.5	0	0	0	0
	36-60	15-30	---	5.1-6.0	0	0	0	0
990:								
Ryman, warm-----	0-4	10-25	---	6.6-7.3	0	0	0	0
	4-18	15-25	---	6.6-7.3	0	0	0	0
	18-32	15-30	---	5.1-6.5	0	0	0	0
	32-60	15-30	---	5.1-6.0	0	0	0	0
992:								
Gladlow-----	0-5	20-35	---	7.4-8.4	1-5	0	0	0
	5-14	20-40	---	7.9-9.0	1-5	0	0.0-2.0	0
	14-24	20-35	---	7.9-9.0	5-15	0-2	0.0-4.0	0
	24-31	20-35	---	7.9-9.0	5-15	1-5	0.0-4.0	0
	31-60	20-35	---	7.9-9.0	5-10	0-2	0.0-4.0	0
996:								
Zoltay-----	0-6	15-30	---	6.6-7.8	0	0	0	0
	6-14	15-30	---	6.6-7.8	0	0	0	0
	14-23	20-40	---	6.6-7.8	0-1	0	0	0
	23-29	20-40	---	6.6-7.8	0-1	0	0	0
	29-46	10-30	---	7.4-8.4	3-15	0	0.0-2.0	0
	46-60	10-30	---	7.4-8.4	3-15	0	0.0-2.0	0

Table 25.--Chemical properties of the soils--Continued

Map symbol and soil name	Depth	Cation exchange capacity	Effective cation exchange capacity	Soil reaction	Calcium carbon- ate	Gypsum	Salinity	Sodium adsorp- tion ratio
	<u>In.</u>	<u>meq/100 g</u>	<u>meq/100 g</u>	<u>pH</u>	<u>Pct.</u>	<u>Pct.</u>	<u>mmhos/cm</u>	
997:								
Zigzag-----	0-6	15-30	---	7.4-8.4	1-5	0	0	0
	6-15	20-35	---	7.4-8.4	1-10	0	0.0-2.0	0
	15-25	---	---	---	---	---	---	---
Bodot-----	0-3	15-35	---	7.4-8.4	1-5	0	0	0
	3-18	20-40	---	7.4-8.4	5-10	0	0.0-8.0	0
	18-38	20-40	---	7.9-9.0	5-10	0	0.0-8.0	0
	38-48	---	---	---	---	---	---	---
Rock outcrop-----	0-60	---	---	---	---	---	---	---

Table 26.--Water features

(Depths of layers are in feet. See text for definitions of terms used in this table. Estimates of the frequency of ponding and flooding apply to the whole year rather than to individual months. Absence of an entry indicates that the feature is not a concern or that data were not estimated.)

Map symbol and soil name	Hydro- logic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			<u>Ft.</u>	<u>Ft.</u>	<u>Ft.</u>				
1: Bradfield-----	C	Jan-Dec	---	---	---	---	None	---	None
Narraguinnep-----	D	Jan-Dec	---	---	---	---	None	---	None
2: Hesperus-----	B	April	3.5-6.0	>6.0	---	---	None	---	None
		May	3.5-6.0	>6.0	---	---	None	---	None
		June	3.5-6.0	>6.0	---	---	None	---	None
		July	3.5-6.0	>6.0	---	---	None	---	None
10: Lillings-----	B	March	---	---	---	---	None	Very brief	Rare
		April	---	---	---	---	None	Very brief	Rare
		May	---	---	---	---	None	Very brief	Rare
12: Shawa-----	B	Jan-Dec	---	---	---	---	None	---	None
13: Fughes-----	C	Jan-Dec	---	---	---	---	None	---	None
14: Dalmatian-----	B	January	5.0-6.0	>6.0	---	---	None	---	None
		February	5.0-6.0	>6.0	---	---	None	---	None
		March	4.0-6.0	>6.0	---	---	None	Brief	Rare
		April	3.0-5.0	>6.0	---	---	None	Brief	Rare
		May	3.0-5.0	>6.0	---	---	None	Brief	Rare
		June	3.0-5.0	>6.0	---	---	None	Brief	Rare
		July	3.0-5.0	>6.0	---	---	None	---	None
		August	4.0-6.0	>6.0	---	---	None	---	None
		September	4.0-6.0	>6.0	---	---	None	---	None
		October	5.0-6.0	>6.0	---	---	None	---	None
		November	5.0-6.0	>6.0	---	---	None	---	None
		December	5.0-6.0	>6.0	---	---	None	---	None

Table 26.--Water features--Continued

Map symbol and soil name	Hydro- logic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			<u>Ft.</u>	<u>Ft.</u>	<u>Ft.</u>				
14: Apmay-----	B	January	5.0-6.0	>6.0	---	---	None	---	None
		February	5.0-6.0	>6.0	---	---	None	---	None
		March	3.0-5.0	>6.0	---	---	None	Brief	Rare
		April	2.0-4.0	>6.0	---	---	None	Brief	Rare
		May	1.0-3.0	>6.0	---	---	None	Brief	Rare
		June	1.0-3.0	>6.0	---	---	None	Brief	Rare
		July	2.0-4.0	>6.0	---	---	None	---	None
		August	3.0-5.0	>6.0	---	---	None	---	None
		September	4.0-6.0	>6.0	---	---	None	---	None
		October	5.0-6.0	>6.0	---	---	None	---	None
		November	5.0-6.0	>6.0	---	---	None	---	None
		December	5.0-6.0	>6.0	---	---	None	---	None
Schrader-----	D	January	5.0-6.0	>6.0	---	---	None	---	None
		February	5.0-6.0	>6.0	---	---	None	---	None
		March	3.0-4.0	>6.0	---	---	None	Brief	Occasional
		April	2.0-3.0	>6.0	---	---	None	Brief	Occasional
		May	1.0-2.0	>6.0	---	---	None	Brief	Occasional
		June	1.0-2.0	>6.0	---	---	None	Brief	Occasional
		July	2.0-3.0	>6.0	---	---	None	---	None
		August	3.0-4.0	>6.0	---	---	None	---	None
		September	4.0-5.0	>6.0	---	---	None	---	None
		October	5.0-6.0	>6.0	---	---	None	---	None
		November	5.0-6.0	>6.0	---	---	None	---	None
		December	5.0-6.0	>6.0	---	---	None	---	None
15: Umbarg-----	B	January	5.0-6.0	>6.0	---	---	None	---	None
		February	5.0-6.0	>6.0	---	---	None	---	None
		March	4.0-6.0	>6.0	---	---	None	Brief	Rare
		April	4.0-6.0	>6.0	---	---	None	Brief	Rare
		May	3.0-5.0	>6.0	---	---	None	Brief	Rare
		June	3.0-5.0	>6.0	---	---	None	Brief	Rare
		July	3.5-6.0	>6.0	---	---	None	---	None
		August	4.0-6.0	>6.0	---	---	None	---	None
		September	4.0-6.0	>6.0	---	---	None	---	None
		October	5.0-6.0	>6.0	---	---	None	---	None
		November	5.0-6.0	>6.0	---	---	None	---	None
		December	5.0-6.0	>6.0	---	---	None	---	None
16: Payter-----	B	Jan-Dec	---	---	---	---	None	---	None

Table 26.--Water features--Continued

Map symbol and soil name	Hydro- logic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
17:			Ft.	Ft.	Ft.				
Fluvaquents-----	D	January	1.0-3.0	>6.0	---	---	None	---	None
		February	1.0-3.0	>6.0	---	---	None	---	None
		March	1.0-3.0	>6.0	---	---	None	Brief	Frequent
		April	1.0-3.0	>6.0	---	---	None	Brief	Frequent
		May	1.0-2.0	>6.0	---	---	None	Brief	Frequent
		June	1.0-2.0	>6.0	---	---	None	Brief	Frequent
		July	1.0-3.0	>6.0	---	---	None	---	None
		August	1.0-3.0	>6.0	---	---	None	---	None
		September	1.0-3.0	>6.0	---	---	None	---	None
		October	1.0-3.0	>6.0	---	---	None	---	None
		November	1.0-3.0	>6.0	---	---	None	---	None
		December	1.0-3.0	>6.0	---	---	None	---	None
Haplustolls-----	B	March	---	---	---	---	None	Brief	Rare
		April	5.0-6.0	>6.0	---	---	None	Brief	Rare
		May	5.0-6.0	>6.0	---	---	None	Brief	Rare
		June	5.0-6.0	>6.0	---	---	None	Brief	Rare
Endoaquolls-----	D	January	3.0-5.0	>6.0	---	---	None	---	None
		February	3.0-5.0	>6.0	---	---	None	---	None
		March	3.0-5.0	>6.0	---	---	None	---	None
		April	2.0-4.0	>6.0	---	---	None	Long	Frequent
		May	0.5-1.5	>6.0	---	---	None	Long	Frequent
		June	0.5-1.5	>6.0	---	---	None	Long	Frequent
		July	2.0-3.0	>6.0	---	---	None	---	None
		August	2.0-3.0	>6.0	---	---	None	---	None
		September	3.0-4.0	>6.0	---	---	None	---	None
		October	3.0-5.0	>6.0	---	---	None	---	None
		November	3.0-5.0	>6.0	---	---	None	---	None
		December	3.0-5.0	>6.0	---	---	None	---	None
Ustifluvents-----	B	January	5.0-6.0	>6.0	---	---	None	---	None
		February	5.0-6.0	>6.0	---	---	None	---	None
		March	4.0-6.0	>6.0	---	---	None	---	None
		April	3.0-5.0	>6.0	---	---	None	Brief	Occasional
		May	3.0-5.0	>6.0	---	---	None	Brief	Occasional
		June	3.0-5.0	>6.0	---	---	None	Brief	Occasional
		July	4.0-5.0	>6.0	---	---	None	---	None
		August	4.0-6.0	>6.0	---	---	None	---	None
		September	5.0-6.0	>6.0	---	---	None	---	None
		October	5.0-6.0	>6.0	---	---	None	---	None
		November	5.0-6.0	>6.0	---	---	None	---	None
		December	5.0-6.0	>6.0	---	---	None	---	None

Table 26.--Water features--Continued

Map symbol and soil name	Hydro- logic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			<u>Ft.</u>	<u>Ft.</u>	<u>Ft.</u>				
20: Mavreeso-----	B	Jan-Dec	---	---	---	---	None	---	None
51: Clayburn-----	B	Jan-Dec	---	---	---	---	None	---	None
Hourglass-----	B	Jan-Dec	---	---	---	---	None	---	None
52: Ohwiler-----	B	Jan-Dec	---	---	---	---	None	---	None
53: Cryaquolls-----	D	January	1.0-3.0	>6.0	---	---	None	---	None
		February	1.0-3.0	>6.0	---	---	None	---	None
		March	1.0-2.5	>6.0	---	---	None	---	None
		April	0.5-2.0	>6.0	---	---	None	Brief	Occasional
		May	0.5-1.6	>6.0	---	---	None	Brief	Occasional
		June	0.5-1.6	>6.0	---	---	None	Brief	Occasional
		July	0.5-2.0	>6.0	---	---	None	Brief	Occasional
		August	0.5-2.0	>6.0	---	---	None	---	None
		September	1.0-2.5	>6.0	---	---	None	---	None
		October	1.0-2.5	>6.0	---	---	None	---	None
		November	1.0-3.0	>6.0	---	---	None	---	None
		December	1.0-3.0	>6.0	---	---	None	---	None
Typic Cryaquents-----	D	January	1.5-3.0	>6.0	---	---	None	---	None
		February	1.5-3.0	>6.0	---	---	None	---	None
		March	1.0-3.0	>6.0	---	---	None	---	None
		April	0.5-2.5	>6.0	---	---	None	Brief	Occasional
		May	0.5-1.6	>6.0	---	---	None	Brief	Occasional
		June	0.5-1.6	>6.0	---	---	None	Brief	Occasional
		July	0.5-2.0	>6.0	---	---	None	Brief	Occasional
		August	0.5-2.0	>6.0	---	---	None	---	None
		September	1.0-2.5	>6.0	---	---	None	---	None
		October	1.0-2.5	>6.0	---	---	None	---	None
		November	1.5-3.0	>6.0	---	---	None	---	None
		December	1.5-3.0	>6.0	---	---	None	---	None
54: Quazar-----	B	Jan-Dec	---	---	---	---	None	---	None

Table 26.--Water features--Continued

Map symbol and soil name	Hydro- logic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
56:			<u>Ft.</u>	<u>Ft.</u>	<u>Ft.</u>				
Typic Cryaquents-----	D	January	1.5-3.0	>6.0	---	---	None	---	None
		February	1.5-3.0	>6.0	---	---	None	---	None
		March	1.0-3.0	>6.0	---	---	None	---	None
		April	0.5-2.5	>6.0	---	---	None	Brief	Occasional
		May	0.5-1.6	>6.0	---	---	None	Brief	Occasional
		June	0.5-1.6	>6.0	---	---	None	Brief	Occasional
		July	0.5-2.0	>6.0	---	---	None	Brief	Occasional
		August	0.5-2.0	>6.0	---	---	None	---	None
		September	1.0-2.5	>6.0	---	---	None	---	None
		October	1.0-2.5	>6.0	---	---	None	---	None
		November	1.5-3.0	>6.0	---	---	None	---	None
		December	1.5-3.0	>6.0	---	---	None	---	None
Cryaquolls-----	D	January	1.0-3.0	>6.0	---	---	None	---	None
		February	1.0-3.0	>6.0	---	---	None	---	None
		March	1.0-2.5	>6.0	---	---	None	---	None
		April	0.5-2.0	>6.0	---	---	None	Brief	Occasional
		May	0.5-1.6	>6.0	---	---	None	Brief	Occasional
		June	0.5-1.6	>6.0	---	---	None	Brief	Occasional
		July	0.5-2.0	>6.0	---	---	None	Brief	Occasional
		August	0.5-2.0	>6.0	---	---	None	---	None
		September	1.0-2.5	>6.0	---	---	None	---	None
		October	1.0-2.5	>6.0	---	---	None	---	None
		November	1.0-3.0	>6.0	---	---	None	---	None
		December	1.0-3.0	>6.0	---	---	None	---	None
Cryofibrists-----	D	January	0.0-3.0	>6.0	---	---	None	---	None
		February	0.0-3.0	>6.0	---	---	None	---	None
		March	0.0-3.0	>6.0	---	---	None	---	None
		April	0.0-3.0	>6.0	---	---	None	Long	Frequent
		May	0.0-3.0	>6.0	---	---	None	Long	Frequent
		June	0.0-3.0	>6.0	---	---	None	Long	Frequent
		July	0.0-3.0	>6.0	---	---	None	Long	Frequent
		August	0.0-3.0	>6.0	---	---	None	Long	Frequent
		September	0.0-3.0	>6.0	---	---	None	Long	Frequent
		October	0.0-3.0	>6.0	---	---	None	---	None
		November	0.0-3.0	>6.0	---	---	None	---	None
		December	0.0-3.0	>6.0	---	---	None	---	None
57:									
Howardsville-----	A	Jan-Dec	---	---	---	---	None	---	None
58:									
Fughes-----	C	Jan-Dec	---	---	---	---	None	---	None

Table 26.--Water features--Continued

Map symbol and soil name	Hydro- logic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			<u>Ft.</u>	<u>Ft.</u>	<u>Ft.</u>				
58: Herm-----	C	Jan-Dec	---	---	---	---	None	---	None
59: Fughes-----	C	Jan-Dec	---	---	---	---	None	---	None
Herm-----	C	Jan-Dec	---	---	---	---	None	---	None
60: Grimes-----	A	Jan-Dec	---	---	---	---	None	---	None
110: Sheek-----	B	Jan-Dec	---	---	---	---	None	---	None
Ormiston-----	C	Jan-Dec	---	---	---	---	None	---	None
111: Fardraw-----	B	Jan-Dec	---	---	---	---	None	---	None
113: Dolores-----	C	Jan-Dec	---	---	---	---	None	---	None
150: Silex-----	D	Jan-Dec	---	---	---	---	None	---	None
Rock outcrop-----	D	Jan-Dec	---	---	---	---	None	---	None
151: Frisco-----	B	Jan-Dec	---	---	---	---	None	---	None
152: Frisco-----	B	Jan-Dec	---	---	---	---	None	---	None
153: Frisco-----	B	Jan-Dec	---	---	---	---	None	---	None
Horsethief-----	B	Jan-Dec	---	---	---	---	None	---	None
154: Frisco-----	B	Jan-Dec	---	---	---	---	None	---	None
Horsethief-----	B	Jan-Dec	---	---	---	---	None	---	None
155: Tuckerville-----	B	Jan-Dec	---	---	---	---	None	---	None

Table 26.--Water features--Continued

Map symbol and soil name	Hydro- logic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			<u>Ft.</u>	<u>Ft.</u>	<u>Ft.</u>				
155: Rock outcrop-----	D	Jan-Dec	---	---	---	---	None	---	None
156: Sponsor-----	B	Jan-Dec	---	---	---	---	None	---	None
Tuckerville-----	B	Jan-Dec	---	---	---	---	None	---	None
157: Sponsor-----	B	Jan-Dec	---	---	---	---	None	---	None
Tuckerville-----	B	Jan-Dec	---	---	---	---	None	---	None
158: Sponsor-----	B	Jan-Dec	---	---	---	---	None	---	None
Tuckerville-----	B	Jan-Dec	---	---	---	---	None	---	None
159: Tuckerville-----	B	Jan-Dec	---	---	---	---	None	---	None
160: Anvik-----	B	Jan-Dec	---	---	---	---	None	---	None
Tuckerville-----	B	Jan-Dec	---	---	---	---	None	---	None
161: Needleton-----	B	Jan-Dec	---	---	---	---	None	---	None
162: Quazar-----	B	Jan-Dec	---	---	---	---	None	---	None
Varden-----	B	Jan-Dec	---	---	---	---	None	---	None
163: Clayburn-----	B	Jan-Dec	---	---	---	---	None	---	None
Hourglass-----	B	Jan-Dec	---	---	---	---	None	---	None
164: Hourglass-----	B	Jan-Dec	---	---	---	---	None	---	None
Bucklon-----	D	Jan-Dec	---	---	---	---	None	---	None
Wander-----	B	Jan-Dec	---	---	---	---	None	---	None

Table 26.--Water features--Continued

Map symbol and soil name	Hydro- logic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			<u>Ft.</u>	<u>Ft.</u>	<u>Ft.</u>				
165: Pinacol-----	C	Jan-Dec	---	---	---	---	None	---	None
166: Pinacol-----	C	Jan-Dec	---	---	---	---	None	---	None
250: Snowdon-----	D	Jan-Dec	---	---	---	---	None	---	None
Rock outcrop-----	D	Jan-Dec	---	---	---	---	None	---	None
251: Rock outcrop-----	D	Jan-Dec	---	---	---	---	None	---	None
Snowdon-----	D	Jan-Dec	---	---	---	---	None	---	None
254: Typic Cryorthents-----	B	Jan-Dec	---	---	---	---	None	---	None
Rubble land-----	A	Jan-Dec	---	---	---	---	None	---	None
330: Needleton-----	B	Jan-Dec	---	---	---	---	None	---	None
331: Needleton-----	B	Jan-Dec	---	---	---	---	None	---	None
332: Horsethief-----	B	Jan-Dec	---	---	---	---	None	---	None
Needleton-----	B	Jan-Dec	---	---	---	---	None	---	None
333: Henson, south aspect-----	B	Jan-Dec	---	---	---	---	None	---	None
334: Henson, south aspect-----	B	Jan-Dec	---	---	---	---	None	---	None
335: Whitecross-----	D	Jan-Dec	---	---	---	---	None	---	None
Rock outcrop-----	D	Jan-Dec	---	---	---	---	None	---	None
336: Whitecross, south aspect--	D	Jan-Dec	---	---	---	---	None	---	None

Table 26.--Water features--Continued

Map symbol and soil name	Hydro- logic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
336: Rock outcrop-----	D	Jan-Dec	<u>Ft.</u> ---	<u>Ft.</u> ---	<u>Ft.</u> ---	---	None	---	None
337: Whitcross-----	D	Jan-Dec	---	---	---	---	None	---	None
Rock outcrop-----	D	Jan-Dec	---	---	---	---	None	---	None
338: Henson-----	B	Jan-Dec	---	---	---	---	None	---	None
339: Henson-----	B	Jan-Dec	---	---	---	---	None	---	None
340: Moran-----	B	Jan-Dec	---	---	---	---	None	---	None
341: Moran-----	B	Jan-Dec	---	---	---	---	None	---	None
342: Telluride-----	D	Jan-Dec	---	---	---	---	None	---	None
Rock outcrop-----	D	Jan-Dec	---	---	---	---	None	---	None
343: Telluride-----	D	Jan-Dec	---	---	---	---	None	---	None
Rock outcrop-----	D	Jan-Dec	---	---	---	---	None	---	None
345: Papaspila-----	B	Jan-Dec	---	---	---	---	None	---	None
350: Flygare-----	B	Jan-Dec	---	---	---	---	None	---	None
Foidel-----	B	Jan-Dec	---	---	---	---	None	---	None
355: Flygare-----	B	Jan-Dec	---	---	---	---	None	---	None
Foidel-----	B	Jan-Dec	---	---	---	---	None	---	None
360: Blacksnag-----	B	Jan-Dec	---	---	---	---	None	---	None

Table 26.--Water features--Continued

Map symbol and soil name	Hydro- logic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			<u>Ft.</u>	<u>Ft.</u>	<u>Ft.</u>				
360: Peeler-----	B	Jan-Dec	---	---	---	---	None	---	None
361: Blacksnag-----	B	Jan-Dec	---	---	---	---	None	---	None
Peeler-----	B	Jan-Dec	---	---	---	---	None	---	None
374: Mavreeso-----	B	Jan-Dec	---	---	---	---	None	---	None
Valto-----	D	Jan-Dec	---	---	---	---	None	---	None
Rock outcrop-----	D	Jan-Dec	---	---	---	---	None	---	None
375: Needleton-----	B	Jan-Dec	---	---	---	---	None	---	None
Snowdon-----	D	Jan-Dec	---	---	---	---	None	---	None
376: Needleton-----	B	Jan-Dec	---	---	---	---	None	---	None
378: Needleton-----	B	Jan-Dec	---	---	---	---	None	---	None
Haviland-----	B	Jan-Dec	---	---	---	---	None	---	None
380: Snowdon-----	D	Jan-Dec	---	---	---	---	None	---	None
Rock outcrop-----	D	Jan-Dec	---	---	---	---	None	---	None
381: Needleton-----	B	Jan-Dec	---	---	---	---	None	---	None
Snowdon-----	D	Jan-Dec	---	---	---	---	None	---	None
Rock outcrop-----	D	Jan-Dec	---	---	---	---	None	---	None
382: Needleton-----	B	Jan-Dec	---	---	---	---	None	---	None
Snowdon-----	D	Jan-Dec	---	---	---	---	None	---	None

Table 26.--Water features--Continued

Map symbol and soil name	Hydro- logic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			<u>Ft.</u>	<u>Ft.</u>	<u>Ft.</u>				
383: Haviland-----	B	Jan-Dec	---	---	---	---	None	---	None
Needleton-----	B	Jan-Dec	---	---	---	---	None	---	None
386: Needleton-----	B	Jan-Dec	---	---	---	---	None	---	None
387: Frisco-----	B	Jan-Dec	---	---	---	---	None	---	None
Quazar-----	B	Jan-Dec	---	---	---	---	None	---	None
388: Frisco-----	B	Jan-Dec	---	---	---	---	None	---	None
Quazar-----	B	Jan-Dec	---	---	---	---	None	---	None
389: Seitz-----	C	Jan-Dec	---	---	---	---	None	---	None
390: Clayburn-----	B	Jan-Dec	---	---	---	---	None	---	None
Heisspitz-----	D	Jan-Dec	---	---	---	---	None	---	None
391: Runlett-----	B	Jan-Dec	---	---	---	---	None	---	None
Sessions-----	B	Jan-Dec	---	---	---	---	None	---	None
392: Runlett-----	B	Jan-Dec	---	---	---	---	None	---	None
Needleton-----	B	Jan-Dec	---	---	---	---	None	---	None
Sessions-----	B	Jan-Dec	---	---	---	---	None	---	None
393: Heisspitz-----	D	Jan-Dec	---	---	---	---	None	---	None
Sessions-----	B	Jan-Dec	---	---	---	---	None	---	None
Rock outcrop-----	D	Jan-Dec	---	---	---	---	None	---	None

Table 26.--Water features--Continued

Map symbol and soil name	Hydro- logic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			<u>Ft.</u>	<u>Ft.</u>	<u>Ft.</u>				
394: Clayburn-----	B	Jan-Dec	---	---	---	---	None	---	None
Heisspitz-----	D	Jan-Dec	---	---	---	---	None	---	None
395: Scout-----	B	Jan-Dec	---	---	---	---	None	---	None
396: Scout-----	B	Jan-Dec	---	---	---	---	None	---	None
399: Kite-----	C	Jan-Dec	---	---	---	---	None	---	None
Rock outcrop-----	D	Jan-Dec	---	---	---	---	None	---	None
450: Lostlake-----	D	Jan-Dec	---	---	---	---	None	---	None
Rock outcrop-----	D	Jan-Dec	---	---	---	---	None	---	None
452: Dystrocryepts-----	C	Jan-Dec	---	---	---	---	None	---	None
Rock outcrop-----	D	Jan-Dec	---	---	---	---	None	---	None
453: Sig-----	D	Jan-Dec	---	---	---	---	None	---	None
Rock outcrop-----	D	Jan-Dec	---	---	---	---	None	---	None
Snowdon-----	D	Jan-Dec	---	---	---	---	None	---	None
454: Snowdon-----	D	Jan-Dec	---	---	---	---	None	---	None
Sig-----	D	Jan-Dec	---	---	---	---	None	---	None
Rock outcrop-----	D	Jan-Dec	---	---	---	---	None	---	None
493: Badland-----	D	Jan-Dec	---	---	---	---	None	---	None
494: Pits, gravel-----	A	Jan-Dec	---	---	---	---	None	---	None

Table 26.--Water features--Continued

Map symbol and soil name	Hydro- logic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
495: Riverwash-----	D	January	0.0-2.0	>6.0	---	---	None	Very long	Frequent
		February	0.0-2.0	>6.0	---	---	None	Very long	Frequent
		March	0.0-2.0	>6.0	---	---	None	Very long	Frequent
		April	0.0-2.0	>6.0	---	---	None	Very long	Frequent
		May	0.0-2.0	>6.0	---	---	None	Very long	Frequent
		June	0.0-2.0	>6.0	---	---	None	Very long	Frequent
		July	0.0-2.0	>6.0	---	---	None	Very long	Frequent
		August	0.0-2.0	>6.0	---	---	None	Very long	Frequent
		September	0.0-2.0	>6.0	---	---	None	Very long	Frequent
		October	0.0-2.0	>6.0	---	---	None	Very long	Frequent
		November	0.0-2.0	>6.0	---	---	None	Very long	Frequent
		December	0.0-2.0	>6.0	---	---	None	Very long	Frequent
496: Rock outcrop-----	D	Jan-Dec	---	---	---	---	None	---	None
497: Rubble land-----	A	Jan-Dec	---	---	---	---	None	---	None
498: Slickens-----	B	Jan-Dec	---	---	---	---	None	---	None
499: Water-----	---	Jan-Dec	---	---	---	---	None	---	None
500: Dolores-----	C	Jan-Dec	---	---	---	---	None	---	None
Fivepine-----	D	Jan-Dec	---	---	---	---	None	---	None
501: Fivepine-----	D	Jan-Dec	---	---	---	---	None	---	None
Nortez-----	C	Jan-Dec	---	---	---	---	None	---	None
503: Ormiston-----	C	Jan-Dec	---	---	---	---	None	---	None
Fivepine-----	D	Jan-Dec	---	---	---	---	None	---	None
504: Jemco-----	C	Jan-Dec	---	---	---	---	None	---	None
Detra-----	B	Jan-Dec	---	---	---	---	None	---	None

Table 26.--Water features--Continued

Map symbol and soil name	Hydro- logic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			<u>Ft.</u>	<u>Ft.</u>	<u>Ft.</u>				
504: Beje-----	D	Jan-Dec	---	---	---	---	None	---	None
505: Moento-----	C	Jan-Dec	---	---	---	---	None	---	None
506: Moento-----	C	Jan-Dec	---	---	---	---	None	---	None
Detra-----	B	Jan-Dec	---	---	---	---	None	---	None
Jemco-----	C	Jan-Dec	---	---	---	---	None	---	None
508: Herm-----	C	Jan-Dec	---	---	---	---	None	---	None
Pagoda-----	C	Jan-Dec	---	---	---	---	None	---	None
509: Burnson, dry-----	C	Jan-Dec	---	---	---	---	None	---	None
510: Jemco-----	C	Jan-Dec	---	---	---	---	None	---	None
Moento-----	C	Jan-Dec	---	---	---	---	None	---	None
511: Granath-----	B	Jan-Dec	---	---	---	---	None	---	None
Fughes-----	C	Jan-Dec	---	---	---	---	None	---	None
512: Wetherill-----	B	Jan-Dec	---	---	---	---	None	---	None
513: Maudrey-----	C	Jan-Dec	---	---	---	---	None	---	None
Tombac-----	C	Jan-Dec	---	---	---	---	None	---	None
525: Arabrab-----	D	Jan-Dec	---	---	---	---	None	---	None
526: Lonecone-----	B	Jan-Dec	---	---	---	---	None	---	None

Table 26.--Water features--Continued

Map symbol and soil name	Hydro- logic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			<u>Ft.</u>	<u>Ft.</u>	<u>Ft.</u>				
527: Ormiston-----	C	Jan-Dec	---	---	---	---	None	---	None
Beje-----	D	Jan-Dec	---	---	---	---	None	---	None
552: Burnson-----	C	Jan-Dec	---	---	---	---	None	---	None
553: Burnson-----	C	Jan-Dec	---	---	---	---	None	---	None
Herm-----	C	Jan-Dec	---	---	---	---	None	---	None
571: Mancos-----	C	Jan-Dec	---	---	---	---	None	---	None
Skisams-----	D	Jan-Dec	---	---	---	---	None	---	None
Skutum-----	B	Jan-Dec	---	---	---	---	None	---	None
572: Sudduth-----	C	April	3.0-6.0	>6.0	---	---	None	---	None
		May	3.0-6.0	>6.0	---	---	None	---	None
		June	3.0-6.0	>6.0	---	---	None	---	None
600: Valto-----	D	Jan-Dec	---	---	---	---	None	---	None
Rock outcrop-----	D	Jan-Dec	---	---	---	---	None	---	None
601: Weminuche-----	B	Jan-Dec	---	---	---	---	None	---	None
602: Weminuche-----	B	Jan-Dec	---	---	---	---	None	---	None
603: Weminuche-----	B	Jan-Dec	---	---	---	---	None	---	None
Anvik-----	B	Jan-Dec	---	---	---	---	None	---	None
605: Nordicol-----	B	Jan-Dec	---	---	---	---	None	---	None
606: Snowdon-----	D	Jan-Dec	---	---	---	---	None	---	None

Table 26.--Water features--Continued

Map symbol and soil name	Hydro- logic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			<u>Ft.</u>	<u>Ft.</u>	<u>Ft.</u>				
606: Needleton-----	B	Jan-Dec	---	---	---	---	None	---	None
607: Graysill-----	C	Jan-Dec	---	---	---	---	None	---	None
Scotch-----	D	Jan-Dec	---	---	---	---	None	---	None
608: Scotch-----	D	Jan-Dec	---	---	---	---	None	---	None
Graysill-----	C	Jan-Dec	---	---	---	---	None	---	None
609: Hourglass-----	B	Jan-Dec	---	---	---	---	None	---	None
Wander-----	B	Jan-Dec	---	---	---	---	None	---	None
610: Wander-----	B	Jan-Dec	---	---	---	---	None	---	None
Hotter-----	D	Jan-Dec	---	---	---	---	None	---	None
Hourglass-----	B	Jan-Dec	---	---	---	---	None	---	None
611: Goldbug-----	B	Jan-Dec	---	---	---	---	None	---	None
612: Haviland-----	B	Jan-Dec	---	---	---	---	None	---	None
Graysill-----	C	Jan-Dec	---	---	---	---	None	---	None
615: Haviland-----	B	Jan-Dec	---	---	---	---	None	---	None
616: Fortlewis-----	C	Jan-Dec	---	---	---	---	None	---	None
617: Shawa-----	B	Jan-Dec	---	---	---	---	None	---	None
618: Nordicol-----	B	Jan-Dec	---	---	---	---	None	---	None
Valto-----	D	Jan-Dec	---	---	---	---	None	---	None

Table 26.--Water features--Continued

Map symbol and soil name	Hydro- logic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
619: Nordicol-----	B	Jan-Dec	<u>Ft.</u> ---	<u>Ft.</u> ---	<u>Ft.</u> ---	---	None	---	None
620: Caviness-----	B	Jan-Dec	---	---	---	---	None	---	None
621: Granturk-----	D	Jan-Dec	---	---	---	---	None	---	None
622: Granturk-----	D	Jan-Dec	---	---	---	---	None	---	None
Rock outcrop-----	D	Jan-Dec	---	---	---	---	None	---	None
623: Chris-----	C	Jan-Dec	---	---	---	---	None	---	None
Nordicol-----	B	Jan-Dec	---	---	---	---	None	---	None
699: Haplocryolls-----	B	Jan-Dec	---	---	---	---	None	---	None
Rubble land-----	A	Jan-Dec	---	---	---	---	None	---	None
700: Bradfield-----	C	Jan-Dec	---	---	---	---	None	---	None
703: Narraguinnep-----	D	Jan-Dec	---	---	---	---	None	---	None
704: Gladlow-----	C	Jan-Dec	---	---	---	---	None	---	None
Rock outcrop-----	D	Jan-Dec	---	---	---	---	None	---	None
Ruko-----	D	Jan-Dec	---	---	---	---	None	---	None
705: Helmet-----	C	Jan-Dec	---	---	---	---	None	---	None
706: Narraguinnep-----	D	Jan-Dec	---	---	---	---	None	---	None
707: Teedown-----	B	Jan-Dec	---	---	---	---	None	---	None

Table 26.--Water features--Continued

Map symbol and soil name	Hydro- logic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			<u>Ft.</u>	<u>Ft.</u>	<u>Ft.</u>				
707: Nordicol-----	B	Jan-Dec	---	---	---	---	None	---	None
708: Helmet-----	C	Jan-Dec	---	---	---	---	None	---	None
709: Teedown-----	B	Jan-Dec	---	---	---	---	None	---	None
710: Sili-----	C	Jan-Dec	---	---	---	---	None	---	None
Zigzag-----	D	Jan-Dec	---	---	---	---	None	---	None
711: Sili-----	C	Jan-Dec	---	---	---	---	None	---	None
714: Helmet-----	C	Jan-Dec	---	---	---	---	None	---	None
718: Narraguinnep-----	D	Jan-Dec	---	---	---	---	None	---	None
Gladlow-----	C	Jan-Dec	---	---	---	---	None	---	None
720: Zigzag-----	D	Jan-Dec	---	---	---	---	None	---	None
Rock outcrop-----	D	Jan-Dec	---	---	---	---	None	---	None
723: Zigzag-----	D	Jan-Dec	---	---	---	---	None	---	None
Rock outcrop-----	D	Jan-Dec	---	---	---	---	None	---	None
725: Shawa-----	B	Jan-Dec	---	---	---	---	None	---	None
727: Teedown-----	B	Jan-Dec	---	---	---	---	None	---	None
Nordicol-----	B	Jan-Dec	---	---	---	---	None	---	None
730: Baird Hollow-----	C	Jan-Dec	---	---	---	---	None	---	None

Table 26.--Water features--Continued

Map symbol and soil name	Hydro- logic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			<u>Ft.</u>	<u>Ft.</u>	<u>Ft.</u>				
730: Nordicol-----	B	Jan-Dec	---	---	---	---	None	---	None
Ryman-----	C	Jan-Dec	---	---	---	---	None	---	None
731: Ryman-----	C	Jan-Dec	---	---	---	---	None	---	None
Adel-----	B	Jan-Dec	---	---	---	---	None	---	None
732: Adel-----	B	Jan-Dec	---	---	---	---	None	---	None
Quazar-----	B	Jan-Dec	---	---	---	---	None	---	None
733: Adel-----	B	Jan-Dec	---	---	---	---	None	---	None
Bucklon-----	D	Jan-Dec	---	---	---	---	None	---	None
734: Ryman-----	C	Jan-Dec	---	---	---	---	None	---	None
Clayburn-----	B	Jan-Dec	---	---	---	---	None	---	None
740: Cowntown-----	C	Jan-Dec	---	---	---	---	None	---	None
Scout-----	B	Jan-Dec	---	---	---	---	None	---	None
741: Cowntown-----	C	Jan-Dec	---	---	---	---	None	---	None
Scout-----	B	Jan-Dec	---	---	---	---	None	---	None
750: Archuleta-----	D	Jan-Dec	---	---	---	---	None	---	None
Sheek-----	B	Jan-Dec	---	---	---	---	None	---	None
801: Fughes-----	C	Jan-Dec	---	---	---	---	None	---	None
Sheek-----	B	Jan-Dec	---	---	---	---	None	---	None

Table 26.--Water features--Continued

Map symbol and soil name	Hydro- logic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			<u>Ft.</u>	<u>Ft.</u>	<u>Ft.</u>				
802:									
Argiustolls-----	B	Jan-Dec	---	---	---	---	None	---	None
Haplustalfs-----	C	Jan-Dec	---	---	---	---	None	---	None
Rock outcrop-----	D	Jan-Dec	---	---	---	---	None	---	None
804:									
Wauquie-----	B	Jan-Dec	---	---	---	---	None	---	None
Dolcan-----	D	Jan-Dec	---	---	---	---	None	---	None
Rock outcrop-----	D	Jan-Dec	---	---	---	---	None	---	None
805:									
Shawa-----	B	Jan-Dec	---	---	---	---	None	---	None
Fughes-----	C	Jan-Dec	---	---	---	---	None	---	None
806:									
Shawa-----	B	Jan-Dec	---	---	---	---	None	---	None
Fughes-----	C	Jan-Dec	---	---	---	---	None	---	None
809:									
Argiustolls-----	B	Jan-Dec	---	---	---	---	None	---	None
Haplustalfs-----	C	Jan-Dec	---	---	---	---	None	---	None
813:									
Fughes-----	C	Jan-Dec	---	---	---	---	None	---	None
814:									
Leaps-----	C	Jan-Dec	---	---	---	---	None	---	None
Hofly-----	C	Jan-Dec	---	---	---	---	None	---	None
815:									
Behanco-----	B	Jan-Dec	---	---	---	---	None	---	None
Powderhorn family-----	C	Jan-Dec	---	---	---	---	None	---	None
816:									
Storm-----	B	Jan-Dec	---	---	---	---	None	---	None

Table 26.--Water features--Continued

Map symbol and soil name	Hydro- logic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
826: Ute-----	D	January	0.5-1.5	>6.0	---	---	None	---	None
		February	0.5-1.5	>6.0	---	---	None	---	None
		March	0.5-1.5	>6.0	---	---	None	---	None
		April	0.5-1.5	>6.0	---	---	None	---	None
		May	0.5-1.5	>6.0	---	---	None	---	None
		June	0.5-1.5	>6.0	---	---	None	---	None
		July	0.5-1.5	>6.0	---	---	None	---	None
		August	0.5-1.5	>6.0	---	---	None	---	None
		September	0.5-1.5	>6.0	---	---	None	---	None
		October	0.5-1.5	>6.0	---	---	None	---	None
		November	0.5-1.5	>6.0	---	---	None	---	None
		December	0.5-1.5	>6.0	---	---	None	---	None
Frisko-----	B	Jan-Dec	---	---	---	---	None	---	None
830: Dressel-----	B	Jan-Dec	---	---	---	---	None	---	None
Jersey-----	C	Jan-Dec	---	---	---	---	None	---	None
832: Storm-----	B	Jan-Dec	---	---	---	---	None	---	None
834: Haycamp-----	C	Jan-Dec	---	---	---	---	None	---	None
Jersey-----	C	Jan-Dec	---	---	---	---	None	---	None
835: Brumley-----	B	Jan-Dec	---	---	---	---	None	---	None
860: Granath-----	B	Jan-Dec	---	---	---	---	None	---	None
Nortez-----	C	Jan-Dec	---	---	---	---	None	---	None
861: Morapos-----	C	Jan-Dec	---	---	---	---	None	---	None
862: Granath-----	B	Jan-Dec	---	---	---	---	None	---	None
Dolores-----	C	Jan-Dec	---	---	---	---	None	---	None
Fivepine-----	D	Jan-Dec	---	---	---	---	None	---	None

Table 26.--Water features--Continued

Map symbol and soil name	Hydro- logic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			<u>Ft.</u>	<u>Ft.</u>	<u>Ft.</u>				
863: Granath-----	B	Jan-Dec	---	---	---	---	None	---	None
Ormiston-----	C	Jan-Dec	---	---	---	---	None	---	None
Fivepine-----	D	Jan-Dec	---	---	---	---	None	---	None
890: Tamarron-----	C	Jan-Dec	---	---	---	---	None	---	None
Frisco-----	B	Jan-Dec	---	---	---	---	None	---	None
891: Tamarron-----	C	Jan-Dec	---	---	---	---	None	---	None
Frisco-----	B	Jan-Dec	---	---	---	---	None	---	None
901: Granath-----	B	Jan-Dec	---	---	---	---	None	---	None
Zoltay-----	C	Jan-Dec	---	---	---	---	None	---	None
Nortez-----	C	Jan-Dec	---	---	---	---	None	---	None
903: Anvik-----	B	Jan-Dec	---	---	---	---	None	---	None
904: Beje-----	D	Jan-Dec	---	---	---	---	None	---	None
905: Cryaquolls-----	D	January	1.0-3.0	>6.0	---	---	None	---	None
		February	1.0-3.0	>6.0	---	---	None	---	None
		March	1.0-2.5	>6.0	---	---	None	---	None
		April	0.5-1.7	>6.0	---	---	None	Brief	Occasional
		May	0.5-1.7	>6.0	---	---	None	Brief	Occasional
		June	0.5-1.7	>6.0	---	---	None	Brief	Occasional
		July	0.5-1.7	>6.0	---	---	None	Brief	Occasional
		August	0.5-1.7	>6.0	---	---	None	---	None
		September	1.0-2.5	>6.0	---	---	None	---	None
		October	1.0-2.5	>6.0	---	---	None	---	None
		November	1.0-3.0	>6.0	---	---	None	---	None
		December	1.0-3.0	>6.0	---	---	None	---	None
906: Archuleta-----	D	Jan-Dec	---	---	---	---	None	---	None

Table 26.--Water features--Continued

Map symbol and soil name	Hydro- logic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			<u>Ft.</u>	<u>Ft.</u>	<u>Ft.</u>				
907: Archuleta-----	D	Jan-Dec	---	---	---	---	None	---	None
Sanchez-----	D	Jan-Dec	---	---	---	---	None	---	None
908: Adel-----	B	Jan-Dec	---	---	---	---	None	---	None
909: Adel-----	B	Jan-Dec	---	---	---	---	None	---	None
917: Chris-----	C	Jan-Dec	---	---	---	---	None	---	None
919: Clayburn-----	B	Jan-Dec	---	---	---	---	None	---	None
920: Clayburn-----	B	Jan-Dec	---	---	---	---	None	---	None
926: Ustolls-----	B	Jan-Dec	---	---	---	---	None	---	None
Rock outcrop-----	D	Jan-Dec	---	---	---	---	None	---	None
930: Fortlewis-----	C	Jan-Dec	---	---	---	---	None	---	None
Rock outcrop-----	D	Jan-Dec	---	---	---	---	None	---	None
934: Ceek-----	B	Jan-Dec	---	---	---	---	None	---	None
937: Herm-----	C	Jan-Dec	---	---	---	---	None	---	None
939: Ohwiler-----	B	Jan-Dec	---	---	---	---	None	---	None
940: Horsethief-----	B	Jan-Dec	---	---	---	---	None	---	None
942: Fivepine-----	D	Jan-Dec	---	---	---	---	None	---	None
Pino-----	C	Jan-Dec	---	---	---	---	None	---	None

Table 26.--Water features--Continued

Map symbol and soil name	Hydro- logic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			<u>Ft.</u>	<u>Ft.</u>	<u>Ft.</u>				
945: Nizhoni-----	D	Jan-Dec	---	---	---	---	None	---	None
Arabrab-----	D	Jan-Dec	---	---	---	---	None	---	None
Rock outcrop-----	D	Jan-Dec	---	---	---	---	None	---	None
950: Pescar-----	C	January	3.0-5.0	>6.0	---	---	None	---	None
		February	3.0-5.0	>6.0	---	---	None	---	None
		March	1.5-2.5	>6.0	---	---	None	---	None
		April	0.8-1.7	>6.0	---	---	None	Brief	Frequent
		May	0.8-1.7	>6.0	---	---	None	Brief	Frequent
		June	0.8-1.7	>6.0	---	---	None	Brief	Frequent
		July	2.0-3.0	>6.0	---	---	None	Brief	Frequent
		August	2.0-3.0	>6.0	---	---	None	Brief	Frequent
		September	2.5-3.5	>6.0	---	---	None	Brief	Frequent
		October	2.5-3.5	>6.0	---	---	None	---	None
		November	3.0-4.5	>6.0	---	---	None	---	None
		December	3.0-5.0	>6.0	---	---	None	---	None
951: Endoaquolls-----	D	January	1.5-2.5	>6.0	---	---	None	---	None
		February	1.5-2.5	>6.0	---	---	None	---	None
		March	1.5-2.5	>6.0	---	---	None	---	None
		April	0.5-1.5	>6.0	---	---	None	Long	Frequent
		May	0.5-1.5	>6.0	---	---	None	Long	Frequent
		June	0.5-1.5	>6.0	---	---	None	Long	Frequent
		July	1.0-2.0	>6.0	---	---	None	---	None
		August	1.0-2.0	>6.0	---	---	None	---	None
		September	1.5-2.5	>6.0	---	---	None	---	None
		October	1.5-2.5	>6.0	---	---	None	---	None
		November	1.5-2.5	>6.0	---	---	None	---	None
		December	1.5-2.5	>6.0	---	---	None	---	None

Table 26.--Water features--Continued

Map symbol and soil name	Hydro- logic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
955: Umbarg-----	C	January	5.0-6.0	>6.0	---	---	None	---	None
		February	5.0-6.0	>6.0	---	---	None	---	None
		March	4.0-6.0	>6.0	---	---	None	Brief	Rare
		April	3.0-5.0	>6.0	---	---	None	Brief	Rare
		May	3.0-5.0	>6.0	---	---	None	Brief	Rare
		June	3.0-5.0	>6.0	---	---	None	---	None
		July	3.0-5.0	>6.0	---	---	None	Very brief	Rare
		August	3.0-5.0	>6.0	---	---	None	Very brief	Rare
		September	3.0-5.0	>6.0	---	---	None	Very brief	Rare
		October	4.0-6.0	>6.0	---	---	None	Very brief	Rare
		November	4.0-6.0	>6.0	---	---	None	---	None
		December	5.0-6.0	>6.0	---	---	None	---	None
Winner-----	D	January	4.0-6.0	>6.0	---	---	None	---	None
		February	4.0-6.0	>6.0	---	---	None	---	None
		March	3.0-5.0	>6.0	---	---	None	Brief	Rare
		April	0.5-2.0	>6.0	---	---	None	Brief	Rare
		May	0.5-2.0	>6.0	---	---	None	Brief	Rare
		June	0.5-2.0	>6.0	---	---	None	---	None
		July	1.0-3.0	>6.0	---	---	None	Very brief	Rare
		August	1.0-3.0	>6.0	---	---	None	Very brief	Rare
		September	2.0-4.0	>6.0	---	---	None	Very brief	Rare
		October	2.0-4.0	>6.0	---	---	None	Very brief	Rare
		November	4.0-5.0	>6.0	---	---	None	---	None
		December	4.0-6.0	>6.0	---	---	None	---	None
Tesajo-----	B	January	5.0-6.0	>6.0	---	---	None	---	None
		February	5.0-6.0	>6.0	---	---	None	---	None
		March	4.0-6.0	>6.0	---	---	None	Brief	Rare
		April	4.0-6.0	>6.0	---	---	None	Brief	Rare
		May	4.0-6.0	>6.0	---	---	None	Brief	Rare
		June	4.0-6.0	>6.0	---	---	None	---	None
		July	4.0-6.0	>6.0	---	---	None	Very brief	Rare
		August	4.0-6.0	>6.0	---	---	None	Very brief	Rare
		September	4.0-6.0	>6.0	---	---	None	Very brief	Rare
		October	4.0-6.0	>6.0	---	---	None	Very brief	Rare
		November	5.0-6.0	>6.0	---	---	None	---	None
		December	5.0-6.0	>6.0	---	---	None	---	None
956: Ormiston-----	C	Jan-Dec	---	---	---	---	None	---	None
Granath-----	B	Jan-Dec	---	---	---	---	None	---	None

Table 26.--Water features--Continued

Map symbol and soil name	Hydro- logic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			<u>Ft.</u>	<u>Ft.</u>	<u>Ft.</u>				
958:									
Sheek-----	B	Jan-Dec	---	---	---	---	None	---	None
Archuleta-----	D	Jan-Dec	---	---	---	---	None	---	None
Rock outcrop-----	D	Jan-Dec	---	---	---	---	None	---	None
959:									
Granath-----	B	Jan-Dec	---	---	---	---	None	---	None
965:									
Narraguinnep-----	D	Jan-Dec	---	---	---	---	None	---	None
Dapoin-----	C	Jan-Dec	---	---	---	---	None	---	None
966:									
Cryaquepts-----	C	January	0.5-1.7	>6.0	---	---	None	---	None
		February	0.5-1.7	>6.0	---	---	None	---	None
		March	0.5-1.7	>6.0	---	---	None	---	None
		April	0.5-1.7	>6.0	---	---	None	Long	Frequent
		May	0.5-1.7	>6.0	---	---	None	Long	Frequent
		June	0.5-1.7	>6.0	---	---	None	Long	Frequent
		July	0.5-1.7	>6.0	---	---	None	Long	Frequent
		August	0.5-1.7	>6.0	---	---	None	---	None
		September	0.5-1.7	>6.0	---	---	None	---	None
		October	0.5-1.7	>6.0	---	---	None	---	None
		November	0.5-1.7	>6.0	---	---	None	---	None
		December	0.5-1.7	>6.0	---	---	None	---	None
967:									
Quazar-----	B	Jan-Dec	---	---	---	---	None	---	None
Cryaquolls-----	D	January	1.0-3.0	>6.0	---	---	None	---	None
		February	1.0-3.0	>6.0	---	---	None	---	None
		March	1.0-2.5	>6.0	---	---	None	---	None
		April	0.5-2.0	>6.0	---	---	None	Brief	Occasional
		May	0.5-1.6	>6.0	---	---	None	Brief	Occasional
		June	0.5-1.6	>6.0	---	---	None	Brief	Occasional
		July	0.5-2.0	>6.0	---	---	None	Brief	Occasional
		August	0.5-2.0	>6.0	---	---	None	---	None
		September	1.0-2.5	>6.0	---	---	None	---	None
		October	1.0-2.5	>6.0	---	---	None	---	None
		November	1.0-3.0	>6.0	---	---	None	---	None
		December	1.0-3.0	>6.0	---	---	None	---	None

Table 26.--Water features--Continued

Map symbol and soil name	Hydro- logic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			<u>Ft.</u>	<u>Ft.</u>	<u>Ft.</u>				
967:									
Cryohemists-----	D	January	1.5-2.5	>6.0	---	---	None	---	None
		February	1.5-2.5	>6.0	---	---	None	---	None
		March	1.5-2.5	>6.0	---	---	None	---	None
		April	0.5-1.5	>6.0	---	---	None	Brief	Frequent
		May	0.5-1.5	>6.0	---	---	None	Brief	Frequent
		June	0.5-1.5	>6.0	---	---	None	Brief	Frequent
		July	0.5-1.5	>6.0	---	---	None	---	None
		August	1.0-2.0	>6.0	---	---	None	---	None
		September	1.0-2.0	>6.0	---	---	None	---	None
		October	1.0-2.0	>6.0	---	---	None	---	None
		November	1.5-2.5	>6.0	---	---	None	---	None
		December	1.5-2.5	>6.0	---	---	None	---	None
968:									
Nortez-----	C	Jan-Dec	---	---	---	---	None	---	None
Granath-----	B	Jan-Dec	---	---	---	---	None	---	None
969:									
Nortez-----	C	Jan-Dec	---	---	---	---	None	---	None
Fivepine-----	D	Jan-Dec	---	---	---	---	None	---	None
972:									
Pagoda-----	C	Jan-Dec	---	---	---	---	None	---	None
Coulterg-----	C	Jan-Dec	---	---	---	---	None	---	None
Wiggler-----	D	Jan-Dec	---	---	---	---	None	---	None
989:									
Ryman-----	C	Jan-Dec	---	---	---	---	None	---	None
990:									
Ryman, warm-----	C	Jan-Dec	---	---	---	---	None	---	None
992:									
Gladlow-----	C	Jan-Dec	---	---	---	---	None	---	None
996:									
Zoltay-----	C	Jan-Dec	---	---	---	---	None	---	None
997:									
Zigzag-----	D	Jan-Dec	---	---	---	---	None	---	None

Table 26.--Water features--Continued

Map symbol and soil name	Hydro- logic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
997:			<u>Ft.</u>	<u>Ft.</u>	<u>Ft.</u>				
Bodot-----	C	Jan-Dec	---	---	---	---	None	---	None
Rock outcrop-----	D	Jan-Dec	---	---	---	---	None	---	None

Table 27.--Soil features

(See text for definitions of terms used in this table. Absence of an entry indicates that the feature is not a concern or that data were not estimated.)

Map symbol and soil name	Restrictive layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In.	In.		In.	In.			
1: Bradfield-----	---	---	---	---	0	---	Low	High	Moderate
Narraguinnep-----	---	---	---	---	0	---	Low	High	Low
2: Hesperus-----	---	---	---	---	0	---	Moderate	Moderate	Low
10: Lillings-----	---	---	---	---	0	---	Low	High	High
12: Shawa-----	---	---	---	---	0	---	Moderate	Moderate	Low
13: Fughes-----	---	---	---	---	0	---	Moderate	High	Low
14: Dalmatian-----	---	---	---	---	0	---	Moderate	Moderate	Low
Apmay-----	---	---	---	---	0	---	Moderate	Moderate	Low
Schrader-----	---	---	---	---	0	---	High	High	Low
15: Umbarg-----	---	---	---	---	0	---	Moderate	High	Low
16: Payter-----	---	---	---	---	0	---	Moderate	High	Low
17: Fluvaquents-----	---	---	---	---	0	---	Moderate	Moderate	Low
Haplustolls-----	---	---	---	---	0	---	Low	Moderate	Low
18: Endoaquolls-----	---	---	---	---	0	---	Low	Moderate	Low
Ustifluvents-----	---	---	---	---	0	---	Low	Moderate	Low
20: Mavreeso-----	---	---	---	---	0	---	Moderate	Low	Low
51: Clayburn-----	---	---	---	---	0	---	Moderate	Moderate	Low
Hourglass-----	---	---	---	---	0	---	Moderate	Moderate	Low
52: Ohwiler-----	---	---	---	---	0	---	Moderate	Moderate	Low
53: Cryaquolls-----	---	---	---	---	0	---	High	Moderate	Low
Typic Cryaquents-----	---	---	---	---	0	---	High	Moderate	Low
54: Quazar-----	---	---	---	---	0	---	Moderate	Moderate	Low
56: Typic Cryaquents-----	---	---	---	---	0	---	High	Moderate	Low
Cryaquolls-----	---	---	---	---	0	---	High	Moderate	Low
Cryofibrists-----	---	---	---	---	10-20	20-40	High	High	High
57: Howardsville-----	---	---	---	---	0	---	Low	Low	Moderate
58: Fughes-----	---	---	---	---	0	---	Low	Moderate	Low
Herm-----	---	---	---	---	0	---	Low	Moderate	Low
59: Fughes-----	---	---	---	---	0	---	Low	Moderate	Low
Herm-----	---	---	---	---	0	---	Low	Moderate	Low
60: Grimes-----	---	---	---	---	0	---	Low	Low	Moderate

Table 27.--Soil features--Continued

Map symbol and soil name	Restrictive layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In.	In.		In.	In.			
110: Sheek-----	---	---	---	---	0	---	Low	High	Low
Ormiston-----	Bedrock (lithic)	40-60	---	Indurated	0	---	Low	High	Low
111: Fardraw-----	---	---	---	---	0	---	Low	Moderate	Low
113: Dolores-----	---	---	---	---	0	---	Low	High	Low
150: Silex-----	Bedrock (lithic)	7-20	---	Indurated	0	---	Low	Moderate	High
Rock outcrop-----	Bedrock (lithic)	0-0	---	Indurated	0	---	None	---	---
151: Frisco-----	---	---	---	---	0	---	Moderate	High	Moderate
152: Frisco-----	---	---	---	---	0	---	Moderate	High	Moderate
153: Frisco-----	---	---	---	---	0	---	Moderate	High	Moderate
Horsethief-----	---	---	---	---	0	---	Low	Moderate	Moderate
154: Frisco-----	---	---	---	---	0	---	Moderate	High	Moderate
Horsethief-----	---	---	---	---	0	---	Low	Moderate	Moderate
155: Tuckerville-----	---	---	---	---	0	---	Moderate	Moderate	Low
Rock outcrop-----	Bedrock (lithic)	0-0	---	Indurated	0	---	None	---	---
156: Sponsor-----	---	---	---	---	0	---	Moderate	Moderate	Low
Tuckerville-----	---	---	---	---	0	---	Moderate	Moderate	Low
157: Sponsor-----	---	---	---	---	0	---	Moderate	Moderate	Low
Tuckerville-----	---	---	---	---	0	---	Moderate	Moderate	Low
158: Sponsor-----	---	---	---	---	0	---	Moderate	Moderate	Low
Tuckerville-----	---	---	---	---	0	---	Moderate	Moderate	Low
159: Tuckerville-----	---	---	---	---	0	---	Moderate	Moderate	Low
160: Anvik-----	---	---	---	---	0	---	Moderate	Moderate	Low
Tuckerville-----	---	---	---	---	0	---	Moderate	Moderate	Low
161: Needleton-----	---	---	---	---	0	---	Moderate	High	High
162: Quazar-----	---	---	---	---	0	---	Moderate	Moderate	Low
Varden-----	---	---	---	---	0	---	Low	Moderate	Low
163: Clayburn-----	---	---	---	---	0	---	Moderate	Moderate	Low
Hourglass-----	---	---	---	---	0	---	Moderate	Moderate	Low
164: Hourglass-----	---	---	---	---	0	---	Moderate	Moderate	Low
Bucklon-----	Bedrock (paralithic)	10-20	---	Moderately cemented	0	---	Low	High	Low
Wander-----	---	---	---	---	0	---	Moderate	Moderate	Low
165: Pinacol-----	---	---	---	---	0	---	Low	Moderate	Low

Table 27.--Soil features--Continued

Map symbol and soil name	Restrictive layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In.	In.		In.	In.			
166: Pinacol-----	---	---	---	---	0	---	Low	Moderate	Low
250: Snowdon-----	Bedrock (lithic)	10-20	---	Indurated	0	---	Low	High	High
Rock outcrop-----	Bedrock (lithic)	0-0	---	Indurated	0	---	None	---	---
251: Rock outcrop-----	Bedrock (lithic)	0-0	---	Indurated	0	---	None	---	---
Snowdon-----	Bedrock (lithic)	10-20	---	Indurated	0	---	Low	High	High
254: Typic Cryorthents-----	---	---	---	---	0	---	Low	Moderate	Moderate
Rubble land-----	Bedrock (lithic)	40-80	---	Indurated	0	---	None	---	---
330: Needleton-----	---	---	---	---	0	---	Moderate	High	High
331: Needleton-----	---	---	---	---	0	---	Moderate	High	High
332: Horsethief-----	---	---	---	---	0	---	Low	Moderate	Moderate
Needleton-----	---	---	---	---	0	---	Moderate	High	High
333: Henson, south aspect---	---	---	---	---	0	---	Moderate	High	High
334: Henson, south aspect---	---	---	---	---	0	---	Moderate	High	High
335: Whitcross-----	Bedrock (lithic)	7-20	---	Indurated	0	---	Low	High	High
Rock outcrop-----	Bedrock (lithic)	0-0	---	Indurated	0	---	None	---	---
336: Whitcross, south aspect-----	Bedrock (lithic)	7-20	---	Indurated	0	---	Low	High	High
Rock outcrop-----	Bedrock (lithic)	0-0	---	Indurated	0	---	None	---	---
337: Whitcross-----	Bedrock (lithic)	7-20	---	Indurated	0	---	Low	High	High
Rock outcrop-----	Bedrock (lithic)	0-0	---	Indurated	0	---	None	---	---
338: Henson-----	---	---	---	---	0	---	Moderate	High	High
339: Henson-----	---	---	---	---	0	---	Moderate	High	High
340: Moran-----	---	---	---	---	0	---	Moderate	Moderate	High
341: Moran-----	---	---	---	---	0	---	Moderate	Moderate	High
342: Telluride-----	Bedrock (lithic)	10-20	---	Indurated	0	---	Low	Moderate	High
Rock outcrop-----	Bedrock (lithic)	0-0	---	Indurated	0	---	None	---	---
343: Telluride-----	Bedrock (lithic)	10-20	---	Indurated	0	---	Low	Moderate	High
Rock outcrop-----	Bedrock (lithic)	0-0	---	Indurated	0	---	None	---	---
345: Papaspila-----	---	---	---	---	0	---	Moderate	Moderate	Low
350: Flygare-----	---	---	---	---	0	---	Moderate	Low	Low
Foidel-----	---	---	---	---	0	---	Moderate	Low	Low
355: Flygare-----	---	---	---	---	0	---	Moderate	Low	Low

Table 27.--Soil features--Continued

Map symbol and soil name	Restrictive layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In.	In.		In.	In.			
355: Foidel-----	---	---	---	---	0	---	Moderate	Low	Low
360: Blacksnag-----	---	---	---	---	0	---	Moderate	Moderate	Moderate
Peeler-----	---	---	---	---	0	---	Moderate	Moderate	Moderate
361: Blacksnag-----	---	---	---	---	0	---	Moderate	Moderate	Moderate
Peeler-----	---	---	---	---	0	---	Moderate	Moderate	Moderate
374: Mavreeso-----	---	---	---	---	0	---	Moderate	Low	Low
Valto-----	Bedrock (lithic)	10-20	---	Indurated	0	---	Low	Moderate	Low
Rock outcrop-----	Bedrock (lithic)	0-0	---	---	0	---	None	---	---
375: Needleton-----	---	---	---	---	0	---	Moderate	High	High
Snowdon-----	Bedrock (lithic)	10-20	---	Indurated	0	---	Low	High	High
376: Needleton-----	---	---	---	---	0	---	Moderate	High	High
378: Needleton-----	---	---	---	---	0	---	Moderate	High	High
Haviland-----	---	---	---	---	0	---	Moderate	High	High
380: Snowdon-----	Bedrock (lithic)	10-20	---	Indurated	0	---	Low	High	High
Rock outcrop-----	Bedrock (lithic)	0-0	---	Indurated	0	---	None	---	---
381: Needleton-----	---	---	---	---	0	---	Moderate	High	High
Snowdon-----	Bedrock (lithic)	10-20	---	Indurated	0	---	Low	High	High
Rock outcrop-----	Bedrock (lithic)	0-0	---	Indurated	0	---	None	---	---
382: Needleton-----	---	---	---	---	0	---	Moderate	High	High
Snowdon-----	Bedrock (lithic)	10-20	---	Indurated	0	---	Low	High	High
383: Haviland-----	---	---	---	---	0	---	Moderate	High	High
Needleton-----	---	---	---	---	0	---	Moderate	High	High
386: Needleton-----	---	---	---	---	0	---	Moderate	High	High
387: Frisco-----	---	---	---	---	0	---	Moderate	High	Moderate
Quazar-----	---	---	---	---	0	---	Moderate	Moderate	Low
388: Frisco-----	---	---	---	---	0	---	Moderate	High	Moderate
Quazar-----	---	---	---	---	0	---	Moderate	Moderate	Low
389: Seitz-----	---	---	---	---	0	---	Low	Moderate	Low
390: Clayburn-----	---	---	---	---	0	---	Moderate	Moderate	Low
Heisspitz-----	Bedrock (lithic)	10-20	---	Indurated	0	---	Low	Low	Moderate
391: Runlett-----	Bedrock (lithic)	20-40	---	Indurated	0	---	Moderate	High	Moderate
Sessions-----	---	---	---	---	0	---	Moderate	Moderate	Low
392: Runlett-----	Bedrock (lithic)	20-40	---	Indurated	0	---	Moderate	High	Moderate

Table 27.--Soil features--Continued

Map symbol and soil name	Restrictive layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In.	In.		In.	In.			
392: Needleton-----	---	---	---	---	0	---	Moderate	High	High
Sessions-----	---	---	---	---	0	---	Moderate	Moderate	Low
393: Heisspitz-----	Bedrock (lithic)	10-20	---	Indurated	0	---	Low	Low	Moderate
Sessions-----	---	---	---	---	0	---	Moderate	Moderate	Low
Rock outcrop-----	Bedrock (lithic)	0-0	---	Indurated	0	---	None	---	---
394: Clayburn-----	---	---	---	---	0	---	Moderate	Moderate	Low
Heisspitz-----	Bedrock (lithic)	10-20	---	Indurated	0	---	Low	Low	Moderate
395: Scout-----	---	---	---	---	0	---	Moderate	Moderate	Low
396: Scout-----	---	---	---	---	0	---	Moderate	Moderate	Low
399: Kite-----	Bedrock (lithic)	8-20	---	Indurated	0	---	Low	High	High
Rock outcrop-----	Bedrock (lithic)	0-0	---	Indurated	0	---	None	---	---
450: Lostlake-----	Bedrock (lithic)	8-20	---	Indurated	0	---	Low	High	High
Rock outcrop-----	Bedrock (lithic)	0-0	---	Indurated	0	---	None	---	---
452: Dystrocryepts-----	Bedrock (lithic)	8-60	---	Indurated	0	---	Low	High	High
Rock outcrop-----	Bedrock (lithic)	0-0	---	Indurated	0	---	None	---	---
453: Sig-----	Bedrock (lithic)	8-20	---	Indurated	0	---	Low	Moderate	Moderate
Rock outcrop-----	Bedrock (lithic)	0-0	---	Indurated	0	---	None	---	---
Snowdon-----	Bedrock (lithic)	10-20	---	Indurated	0	---	Low	High	High
454: Snowdon-----	Bedrock (lithic)	10-20	---	Indurated	0	---	Low	High	High
Sig-----	Bedrock (lithic)	8-20	---	Indurated	0	---	Low	Moderate	Moderate
Rock outcrop-----	Bedrock (lithic)	0-0	---	Indurated	0	---	None	---	---
493: Badland-----	Bedrock (paralithic)	0-3	---	Moderately cemented	0	---	None	---	---
494: Pits, gravel-----	---	---	---	---	---	---	None	---	---
495: Riverwash-----	---	---	---	---	0	---	None	---	---
496: Rock outcrop-----	Bedrock (lithic)	0-0	---	Indurated	0	---	None	---	---
497: Rubble land-----	Bedrock (lithic)	40-80	---	Indurated	0	---	None	---	---
498: Slickens-----	---	---	---	---	0	---	None	---	---
499: Water-----	---	---	---	---	---	---	---	---	---
500: Dolores-----	---	---	---	---	0	---	Low	High	Low
Fivepine-----	Bedrock (lithic)	10-20	---	Indurated	0	---	Low	Moderate	Low
501: Fivepine-----	Bedrock (lithic)	10-20	---	Indurated	0	---	Low	Moderate	Low
Nortez-----	Bedrock (lithic)	20-40	---	Indurated	0	---	Low	Moderate	Low

Table 27.--Soil features--Continued

Map symbol and soil name	Restrictive layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In.	In.		In.	In.			
503: Ormiston-----	Bedrock (lithic)	40-60	---	Indurated	0	---	Low	High	Low
Fivepine-----	Bedrock (lithic)	10-20	---	Indurated	0	---	Low	Moderate	Low
504: Jemco-----	Bedrock (lithic)	20-40	---	Indurated	0	---	Moderate	Moderate	Low
Detra-----	Bedrock (lithic)	40-60	---	Indurated	0	---	Moderate	Moderate	Low
Beje-----	Bedrock (lithic)	10-20	---	Indurated	0	---	Moderate	Moderate	Low
505: Moento-----	Bedrock (lithic)	20-40	---	Indurated	0	---	Moderate	Moderate	Low
506: Moento-----	Bedrock (lithic)	20-40	---	Indurated	0	---	Moderate	Moderate	Low
Detra-----	Bedrock (lithic)	40-60	---	Indurated	0	---	Moderate	Moderate	Low
Jemco-----	Bedrock (lithic)	20-40	---	Indurated	0	---	Moderate	Moderate	Low
508: Herm-----	---	---	---	---	0	---	Low	Moderate	Low
Pagoda-----	---	---	---	---	0	---	Low	High	Low
509: Burnson, dry-----	Bedrock (lithic)	40-60	---	Indurated	0	---	Moderate	Moderate	Low
510: Jemco-----	Bedrock (lithic)	20-40	---	Indurated	0	---	Moderate	Moderate	Low
Moento-----	Bedrock (lithic)	20-40	---	Indurated	0	---	Moderate	Moderate	Low
511: Granath-----	---	---	---	---	0	---	Moderate	High	Low
Fughes-----	---	---	---	---	0	---	Low	Moderate	Low
512: Wetherill-----	---	---	---	---	0	---	Moderate	High	Low
513: Maudrey-----	---	---	---	---	0	---	Moderate	Moderate	Low
Tombac-----	---	---	---	---	0	---	Moderate	Moderate	Low
525: Arabrab-----	Bedrock (lithic)	10-20	---	Indurated	0	---	Low	Moderate	Low
526: Lonecone-----	Bedrock (paralithic)	20-40	---	Moderately cemented	0	---	Low	Moderate	Low
527: Ormiston-----	Bedrock (lithic)	40-60	---	Indurated	0	---	Low	High	Low
Beje-----	Bedrock (lithic)	10-20	---	Indurated	0	---	Moderate	Moderate	Low
552: Burnson-----	Bedrock (lithic)	40-60	---	Indurated	0	---	Moderate	Moderate	Low
553: Burnson-----	Bedrock (lithic)	40-60	---	Indurated	0	---	Moderate	Moderate	Low
Herm-----	---	---	---	---	0	---	Low	Moderate	Low
571: Mancos-----	Bedrock (lithic)	20-40	---	Indurated	0	---	Moderate	High	Moderate
Skisams-----	Bedrock (lithic)	6-20	---	Indurated	0	---	Low	Moderate	Low
Skutum-----	Bedrock (paralithic)	50-60	---	Moderately cemented	0	---	Moderate	Moderate	Low
572: Sudduth-----	---	---	---	---	0	---	Moderate	Moderate	Moderate
600: Valto-----	Bedrock (lithic)	10-20	---	Indurated	0	---	Low	Moderate	Low
Rock outcrop-----	Bedrock (lithic)	0-0	---	Indurated	0	---	None	---	---

Table 27.--Soil features--Continued

Map symbol and soil name	Restrictive layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In.	In.			In.		In.	
601: Weminuche-----	---	---	---	---	0	---	Moderate	Moderate	Low
602: Weminuche-----	---	---	---	---	0	---	Moderate	Moderate	Low
603: Weminuche-----	---	---	---	---	0	---	Moderate	Moderate	Low
Anvik-----	---	---	---	---	0	---	Moderate	Moderate	Low
605: Nordicol-----	---	---	---	---	0	---	Low	Moderate	Moderate
606: Snowdon-----	Bedrock (lithic)	10-20	---	Indurated	0	---	Low	High	High
Needleton-----	---	---	---	---	0	---	Moderate	High	High
607: Graysill-----	Bedrock (lithic)	20-40	---	Indurated	0	---	Moderate	High	High
Scotch-----	Bedrock (lithic)	10-20	---	Indurated	0	---	Low	High	High
608: Scotch-----	Bedrock (lithic)	10-20	---	Indurated	0	---	Low	High	High
Graysill-----	Bedrock (lithic)	20-40	---	Indurated	0	---	Moderate	High	High
609: Hourglass-----	---	---	---	---	0	---	Moderate	Moderate	Low
Wander-----	---	---	---	---	0	---	Moderate	Moderate	Low
610: Wander-----	---	---	---	---	0	---	Moderate	Moderate	Low
Hotter-----	Bedrock (lithic)	10-20	---	Indurated	0	---	Low	Moderate	Low
Hourglass-----	---	---	---	---	0	---	Moderate	Moderate	Low
611: Goldbug-----	---	---	---	---	0	---	Low	Moderate	Moderate
612: Haviland-----	---	---	---	---	0	---	Moderate	High	High
Graysill-----	Bedrock (lithic)	20-40	---	Indurated	0	---	Moderate	High	High
615: Haviland-----	---	---	---	---	0	---	Moderate	High	High
616: Fortlewis-----	Bedrock (lithic)	20-40	---	Indurated	0	---	Low	Moderate	Moderate
617: Shawa-----	---	---	---	---	0	---	Moderate	Moderate	Low
618: Nordicol-----	---	---	---	---	0	---	Low	Moderate	Moderate
Valto-----	Bedrock (lithic)	10-20	---	Indurated	0	---	Low	Moderate	Low
619: Nordicol-----	---	---	---	---	0	---	Low	Moderate	Moderate
620: Caviness-----	Bedrock (lithic)	40-60	---	Indurated	0	---	Low	High	Moderate
621: Granturk-----	Bedrock (lithic)	8-20	---	Indurated	0	---	Low	High	High
622: Granturk-----	Bedrock (lithic)	8-20	---	Indurated	0	---	Low	High	High
Rock outcrop-----	Bedrock (lithic)	0-0	---	Indurated	0	---	None	---	---
623: Chris-----	---	---	---	---	0	---	Moderate	Moderate	Moderate
Nordicol-----	---	---	---	---	0	---	Low	Moderate	Moderate
699: Haplocryolls-----	Bedrock (lithic)	20-80	---	Indurated	0	---	Low	Moderate	Low

Table 27.--Soil features--Continued

Map symbol and soil name	Restrictive layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In.	In.		In.	In.			
699: Rubble land-----	Bedrock (lithic)	40-80	---	Indurated	0	---	None	---	---
700: Bradfield-----	---	---	---	---	0	---	Low	High	Moderate
703: Narraguinnep-----	---	---	---	---	0	---	Low	High	Low
704: Gladlow-----	---	---	---	---	0	---	Low	High	Low
Rock outcrop-----	Bedrock (paralithic)	0-0	---	Moderately cemented	0	---	None	---	---
Ruko-----	Bedrock (paralithic)	10-20	---	Moderately cemented	0	---	Moderate	Moderate	Low
705: Helmet-----	---	---	---	---	0	---	Moderate	High	Moderate
706: Narraguinnep-----	---	---	---	---	0	---	Low	High	Low
707: Teedown-----	---	---	---	---	0	---	Moderate	High	Moderate
Nordicol-----	---	---	---	---	0	---	Low	Moderate	Moderate
708: Helmet-----	---	---	---	---	0	---	Moderate	High	Moderate
709: Teedown-----	---	---	---	---	0	---	Moderate	High	Moderate
710: Sili-----	---	---	---	---	0	---	Low	High	Low
Zigzag-----	Bedrock (paralithic)	10-20	---	Moderately cemented	0	---	Low	High	Low
711: Sili-----	---	---	---	---	0	---	Low	High	Low
714: Helmet-----	---	---	---	---	0	---	Moderate	High	Moderate
718: Narraguinnep-----	---	---	---	---	0	---	Low	High	Low
Gladlow-----	---	---	---	---	0	---	Low	High	Low
720: Zigzag-----	Bedrock (paralithic)	10-20	---	Moderately cemented	0	---	Low	High	Low
Rock outcrop-----	Bedrock (lithic)	0-0	---	Indurated	0	---	None	---	---
723: Zigzag-----	Bedrock (paralithic)	10-20	---	Moderately cemented	0	---	Low	High	Low
Rock outcrop-----	Bedrock (lithic)	0-0	---	Indurated	0	---	None	---	---
725: Shawa-----	---	---	---	---	0	---	Moderate	Moderate	Low
727: Teedown-----	---	---	---	---	0	---	Moderate	High	Moderate
Nordicol-----	---	---	---	---	0	---	Low	Moderate	Moderate
730: Baird Hollow-----	---	---	---	---	0	---	Moderate	High	Moderate
Nordicol-----	---	---	---	---	0	---	Low	Moderate	Moderate
Ryman-----	---	---	---	---	0	---	Moderate	High	Moderate
731: Ryman-----	---	---	---	---	0	---	Moderate	High	Moderate
Adel-----	---	---	---	---	0	---	Moderate	Low	Low

Table 27.--Soil features--Continued

Map symbol and soil name	Restrictive layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In.	In.		In.	In.			
732: Adel-----	---	---	---	---	0	---	Moderate	Low	Low
Quazar-----	---	---	---	---	0	---	Moderate	Moderate	Low
733: Adel-----	---	---	---	---	0	---	Moderate	Low	Low
Bucklon-----	Bedrock (paralithic)	10-20	---	Moderately cemented	0	---	Low	High	Low
734: Ryman-----	---	---	---	---	0	---	Moderate	High	Moderate
Clayburn-----	---	---	---	---	0	---	Moderate	Moderate	Low
740: Cowtown-----	---	---	---	---	0	---	Moderate	High	Low
Scout-----	---	---	---	---	0	---	Moderate	Moderate	Low
741: Cowtown-----	---	---	---	---	0	---	Moderate	High	Low
Scout-----	---	---	---	---	0	---	Moderate	Moderate	Low
750: Archuleta-----	Bedrock (paralithic)	10-20	---	Moderately cemented	0	---	Low	Moderate	Low
Sheek-----	---	---	---	---	0	---	Low	Moderate	Low
801: Fughes-----	---	---	---	---	0	---	Low	Moderate	Low
Sheek-----	---	---	---	---	0	---	Low	High	Low
802: Argiustolls-----	Bedrock (paralithic)	20-80	---	Moderately cemented	0	---	Low	Moderate	Low
Haplustalfts-----	Bedrock (paralithic)	10-80	---	Moderately cemented	0	---	Low	High	Low
Rock outcrop-----	Bedrock (lithic)	0-0	---	Indurated	0	---	None	---	---
804: Wauquie-----	---	---	---	---	0	---	Moderate	Low	Low
Dolcan-----	Bedrock (paralithic)	6-20	---	Moderately cemented	0	---	Moderate	Low	Low
Rock outcrop-----	Bedrock (lithic)	0-0	---	Indurated	0	---	None	---	---
805: Shawa-----	---	---	---	---	0	---	Moderate	Moderate	Low
Fughes-----	---	---	---	---	0	---	Low	Moderate	Low
806: Shawa-----	---	---	---	---	0	---	Moderate	Moderate	Low
Fughes-----	---	---	---	---	0	---	Low	Moderate	Low
809: Argiustolls-----	Bedrock (paralithic)	20-80	---	Moderately cemented	0	---	Low	Moderate	Low
Haplustalfts-----	Bedrock (paralithic)	10-80	---	Moderately cemented	0	---	Low	High	Low
813: Fughes-----	---	---	---	---	0	---	Low	Moderate	Low
814: Leaps-----	---	---	---	---	0	---	Low	Moderate	Low
Hofly-----	---	---	---	---	0	---	Low	Moderate	Low
815: Behanco-----	Bedrock (paralithic)	40-60	---	Moderately cemented	0	---	Moderate	Moderate	Moderate
	Bedrock (lithic)	40-60	---	Indurated					

Table 27.--Soil features--Continued

Map symbol and soil name	Restrictive layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In.	In.		In.	In.			
815: Powderhorn family-----	Bedrock (lithic)	40-80	---	Indurated	0	---	Moderate	High	High
816: Storm-----	---	---	---	---	0	---	Moderate	Moderate	Moderate
826: Ute-----	---	---	---	---	0	---	Moderate	Moderate	Low
Frisko-----	---	---	---	---	0	---	Moderate	High	Moderate
830: Dressel-----	---	---	---	---	0	---	Moderate	Low	Low
Jersey-----	---	---	---	---	0	---	Moderate	Moderate	High
832: Storm-----	---	---	---	---	0	---	Moderate	Moderate	Moderate
834: Haycamp-----	---	---	---	---	0	---	Moderate	High	Low
Jersey-----	---	---	---	---	0	---	Moderate	Moderate	High
835: Brumley-----	---	---	---	---	0	---	Moderate	Moderate	Low
860: Granath-----	---	---	---	---	0	---	Moderate	High	Low
Nortez-----	Bedrock (lithic)	20-40	---	Indurated	0	---	Low	Moderate	Low
861: Morapos-----	---	---	---	---	0	---	Moderate	Moderate	Low
862: Granath-----	---	---	---	---	0	---	Moderate	High	Low
Dolores-----	---	---	---	---	0	---	Low	High	Low
Fivepine-----	Bedrock (lithic)	10-20	---	Indurated	0	---	Low	Moderate	Low
863: Granath-----	---	---	---	---	0	---	Moderate	High	Low
Ormiston-----	Bedrock (lithic)	40-60	---	Indurated	0	---	Low	High	Low
Fivepine-----	Bedrock (lithic)	10-20	---	Indurated	0	---	Low	Moderate	Low
890: Tamarron-----	Bedrock (paralithic)	20-40	---	Moderately cemented	0	---	Low	High	Moderate
Frisko-----	---	---	---	---	0	---	Moderate	High	Moderate
891: Tamarron-----	Bedrock (paralithic)	20-40	---	Moderately cemented	0	---	Low	High	Moderate
Frisko-----	---	---	---	---	0	---	Moderate	High	Moderate
901: Granath-----	---	---	---	---	0	---	Moderate	High	Low
Zoltay-----	---	---	---	---	0	---	Low	High	Low
Nortez-----	Bedrock (lithic)	20-40	---	Indurated	0	---	Low	Moderate	Low
903: Anvik-----	---	---	---	---	0	---	Moderate	Moderate	Low
904: Beje-----	Bedrock (lithic)	10-20	---	Indurated	0	---	Low	Moderate	Low
905: Cryaquolls-----	---	---	---	---	0	---	High	Moderate	Low
906: Archuleta-----	Bedrock (paralithic)	10-20	---	Moderately cemented	0	---	Low	Moderate	Low
907: Archuleta-----	Bedrock (paralithic)	10-20	---	Moderately cemented	0	---	Low	Moderate	Low

Table 27.--Soil features--Continued

Map symbol and soil name	Restrictive layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In.	In.		In.	In.			
907: Sanchez-----	Bedrock (lithic)	10-20	---	Indurated	0	---	Low	Moderate	Moderate
908: Adel-----	---	---	---	---	0	---	Moderate	Low	Low
909: Adel-----	---	---	---	---	0	---	Moderate	Moderate	Low
917: Chris-----	---	---	---	---	0	---	Moderate	Moderate	Moderate
919: Clayburn-----	---	---	---	---	0	---	Moderate	Moderate	Low
920: Clayburn-----	---	---	---	---	0	---	Moderate	Moderate	Low
926: Ustolls-----	Bedrock (paralithic)	10-80	---	Moderately cemented	0	---	Low	Moderate	Low
Rock outcrop-----	Bedrock (lithic)	0-0	---	Indurated	0	---	None	---	---
930: Fortlewis-----	Bedrock (lithic)	20-40	---	Indurated	0	---	Low	Moderate	Moderate
Rock outcrop-----	Bedrock (lithic)	0-0	---	Indurated	0	---	None	---	---
934: Ceek-----	---	---	---	---	0	---	Low	High	Low
937: Herm-----	---	---	---	---	0	---	Low	Moderate	Low
939: Ohwiler-----	---	---	---	---	0	---	Moderate	Moderate	Low
940: Horsethief-----	---	---	---	---	0	---	Low	Moderate	Moderate
942: Fivepine-----	Bedrock (lithic)	10-20	---	Indurated	0	---	Low	Moderate	Low
Pino-----	Bedrock (lithic)	20-40	---	Indurated	0	---	Low	High	Low
945: Nizhoni-----	Bedrock (lithic)	5-10	---	Indurated	0	---	Low	High	Low
Arabrab-----	Bedrock (lithic)	8-20	---	Indurated	0	---	Low	Moderate	Low
Rock outcrop-----	Bedrock (lithic)	0-0	---	Indurated	0	---	None	---	---
950: Pescar-----	---	---	---	---	0	---	High	High	Low
951: Endoaquolls-----	---	---	---	---	0	---	Low	Moderate	Low
955: Umbarg-----	---	---	---	---	0	---	Moderate	Moderate	Low
Winner-----	---	---	---	---	0	---	High	High	Low
Tesajo-----	---	---	---	---	0	---	Moderate	Moderate	Low
956: Ormiston-----	Bedrock (lithic)	40-60	---	Indurated	0	---	Low	High	Low
Granath-----	---	---	---	---	0	---	Moderate	High	Low
958: Sheek-----	---	---	---	---	0	---	Low	Moderate	Low
Archuleta-----	Bedrock (paralithic)	10-20	---	Moderately cemented	0	---	Low	Moderate	Low
Rock outcrop-----	Bedrock (lithic)	0-0	---	Indurated	0	---	None	---	---
959: Granath-----	---	---	---	---	0	---	Moderate	High	Low
965: Narraguinnep-----	---	---	---	---	0	---	Low	High	Low

Table 27.--Soil features--Continued

Map symbol and soil name	Restrictive layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In.	In.		In.	In.			
965: Dapoin-----	---	---	---	---	0	---	Low	High	Low
966: Cryaquepts-----	Bedrock (lithic)	20-80	---	Indurated	0	---	High	High	High
967: Quazar-----	---	---	---	---	0	---	Moderate	Moderate	Low
Cryaquolls-----	---	---	---	---	0	---	High	Moderate	Low
Crychemists-----	---	---	---	---	6-18	10-38	High	Moderate	Moderate
968: Nortez-----	Bedrock (lithic)	20-40	---	Indurated	0	---	Low	Moderate	Low
Granath-----	---	---	---	---	0	---	Moderate	High	Low
969: Nortez-----	Bedrock (lithic)	20-40	---	Indurated	0	---	Low	Moderate	Low
Fivepine-----	Bedrock (lithic)	10-20	---	Indurated	0	---	Low	Moderate	Low
972: Pagoda-----	---	---	---	---	0	---	Low	High	Low
Coulterg-----	---	---	---	---	0	---	Moderate	High	High
Wiggler-----	Bedrock (paralithic)	10-20	---	Moderately cemented	0	---	Low	Moderate	Low
989: Ryman-----	---	---	---	---	0	---	Moderate	Moderate	Moderate
990: Ryman, warm-----	---	---	---	---	0	---	Moderate	Moderate	Moderate
992: Gladlow-----	---	---	---	---	0	---	Low	High	Low
996: Zoltay-----	---	---	---	---	0	---	Low	High	Low
997: Zigzag-----	Bedrock (paralithic)	10-20	---	Moderately cemented	0	---	Low	High	Low
Bodot-----	Bedrock (paralithic)	20-40	---	Moderately cemented	0	---	Low	High	Moderate
Rock outcrop-----	Bedrock (lithic)	0-0	---	Indurated	0	---	None	---	---

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